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## INTRODUCTION

Congratulations on your new Garia.

Garia is dedicated to creating the best and most elegant Golf Car in the world. We have been uncompromising in our vision and have thought of every little detail to build a car that meets all your needs and expectations.

This user's manual contains important information that you will need for the proper operation and handling of your Garia.

We encourage you to read this manual thoroughly before operating your Garia.

If you have additional questions regarding operation or maintenance of your Garia, please contact your local Authorized Garia Service Dealer for immediate support.

Thank you for choosing Garia.

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Denmark

Garia Golf Car user's manual.

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1<sup>st</sup> Edition

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Find your local contact at:

[www.garia.com](http://www.garia.com)

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*The information contained in this manual is subject to change without notice.*

*Garia A/S or Garia Inc. is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.*

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## **IMPORTANT MANUAL INFORMATION**

Particularly important information is emphasized in this manual by the following notations:



The Safety Alert Symbol means ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!

### **⚠ DANGER**

Failure to follow DANGER instructions WILL result in severe injury or death to the Golf Car occupants, a bystander, or a person inspecting or repairing the Golf Car.

### **⚠ WARNING**

Failure to follow WARNING instructions could result in severe injury or death to the Golf Car occupants, a bystander, or a person inspecting or repairing the Golf Car.

### **⚠ CAUTION**

Failure to follow CAUTION instructions could result in damage to the Golf Car or the surroundings.

### **NOTE**

This message provides additional important information.

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## **WARNING**

Read and understand the manual completely before operating your Garia Golf Car.

## **NOTE**

Garia A/S is continually making enhancements or improvements in design or quality which are applied to its products. This manual contains all available information on the current product at the time of printing, however, there can be minor differences between your Golf Car and this manual. If you have any questions concerning this manual or your Garia product, please consult your Garia dealer.

This manual is to be considered a permanent part of the Garia Golf Car. Hence, it should always follow the vehicle, including when it is resold.



## IMPORTANT LABELS/NOTIFICATIONS

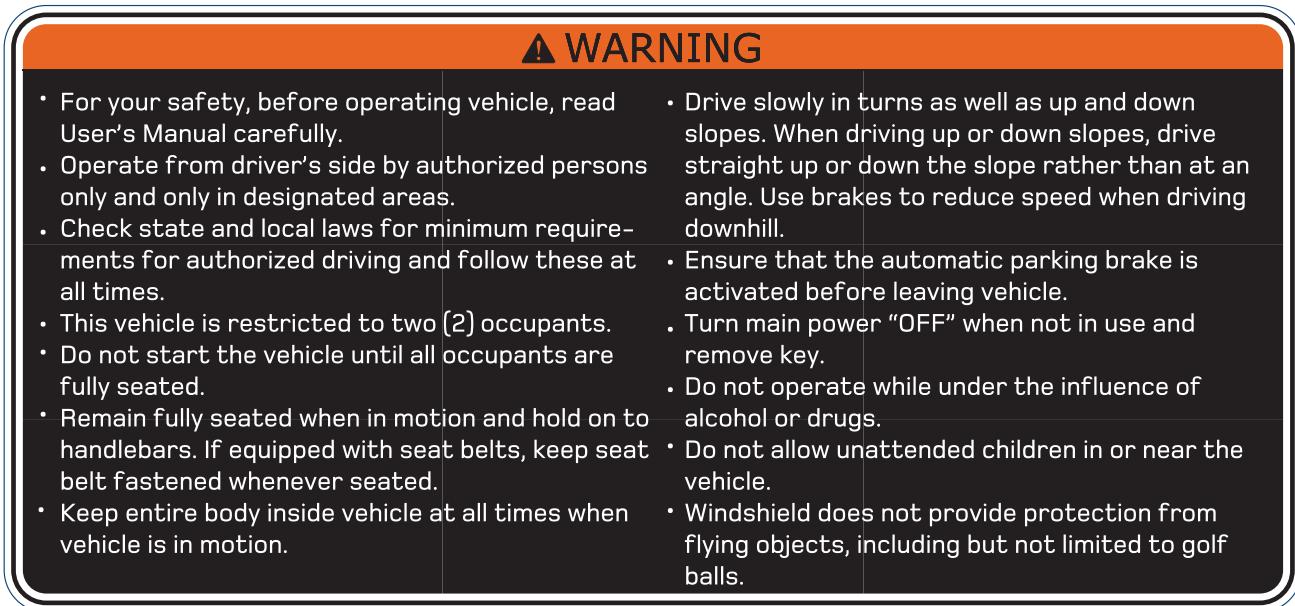


Fig. 1.1

Dashboard Label. Read before operating vehicle. Label size may vary



Fig. 1.2

Batteries Warning Label. Read before handling batteries.  
Label placed in the battery compartment. Label size may vary.



Fig. 1.3

Maintenance Warning Label. Read before maintaining vehicle.  
Label placed in the battery compartment. Label size may vary.

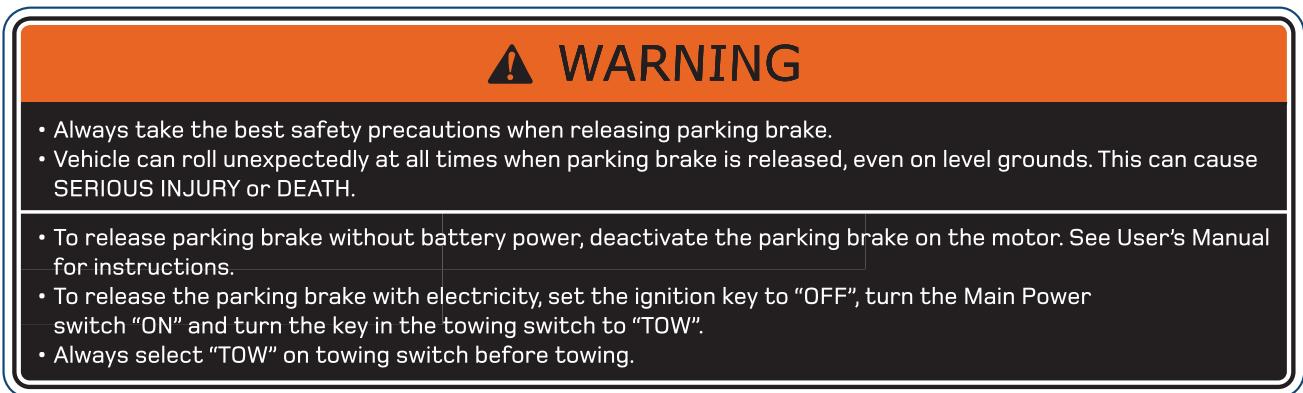


Fig. 1.4

Towing Warning Label. Read before towing vehicle.  
Label placed in the battery compartment. Label size may vary.



Fig. 1.5

Load area label. Read before operating vehicle. Label size may vary.

\*Additional labels can be present on specific vehicles, depending on local jurisdiction.

## 1. WARRANTY

In order to uphold the warranty it is important that all service actions are performed according to the intervals specified by Garia. Please refer to your quick guide and service book for the complete warranty terms and conditions.

Please contact your local dealer for any questions regarding your Garia. To locate your nearest dealer, please visit the website at [www.garia.com](http://www.garia.com)

## 01 WARRANTY

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## 2. SAFETY

### 2.1 BEFORE USE

Read and understand the user's manual and all safety and instruction labels before the vehicle is put into service.

- Read "Check-ups before use" which is found in the following pages of this manual and perform these accordingly.
- This vehicle is only to be driven by people trained in and authorized to using this type of vehicle, always from the driver's side only and only in areas intended for the usage of this type of vehicle.
- Never allow more than one passenger in each seat. This vehicle is restricted to two (2) occupants including the driver.
- Do not operate while under the influence of alcohol and drugs.
- Do not drive the vehicle on public areas and roads. Some communities have special regulations about driving this type of vehicle on public streets, always be sure to observe the specific rules and regulations of the areas and communities where the vehicle is being used.
- Do not make any modifications or additions to the vehicle which influences its loading capacity or safe use. Do not make any changes to the vehicle that are not in accordance with this user's manual.

## 2.2 CHECK-UPS BEFORE USE

Before the vehicle is put into service, the following points of this section should always be followed to ensure the optimal, safe and correct operation of the vehicle. It is a good idea to make it a habit to follow these checkpoints every time the vehicle is used.

Before using the vehicle, please check the following

1. Batteries
2. Tire conditions
3. Body and chassis
4. Brakes
5. Steering
6. Reverse warning indicator
7. Pedal operation

### 2.2.1 Batteries



Fig. 2.1

- Check that all wires are connected correctly and tightened properly.
- Check that no corrosion is present on the battery poles.
- Check that the compartment is dry and free from acid or water spills.
- Check that batteries are placed correctly and held down by the battery bracket.

## 2.2.2 Tire conditions

### 2.2.2.1 Checking tire pressure

It is recommended that the tire pressure is checked and adjusted regularly before using the vehicle.



Fig. 2.2

### 2.2.2.2 Checking tire wear

Check tire surface for damages, cracks and foreign objects. When tire tread wears down to 2,0 mm (0,08 in.), it is recommended that the tire is replaced. Please check local legislation for minimum requirements of tire treads.

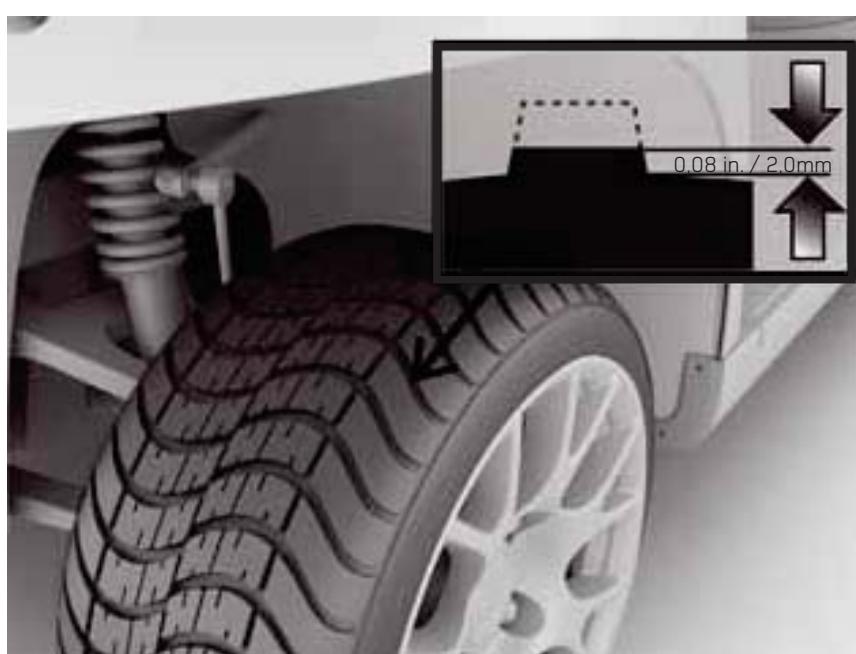


Fig. 2.3

## 2.2.3 Body and chassis

Always visually inspect the chassis and body to make sure that all chassis and body parts are present, correctly mounted and undamaged before using.

Check that all electrical functions are working correctly. This includes:

- The headlamps, both high and low beam
- The parking light
- The turning signal indicator
- The horn
- The hazard light
- The windshield wiper/washer

## 2.2.4 Brakes

Always make sure that brakes are functioning correctly. Do not drive, if brakes are not functioning correctly.

When engaging the brake pedal, the pedal should show resistance after being depressed approximately 1/3 of its way. If it is possible to push the brake to the floor without any resistance, it is an indication of a malfunction in the braking system.

Please consult a qualified repair shop immediately. It is recommended that repairs are provided by an Authorized Garia Service Dealer. The pedal should feel firm at all times and always return to its original position when released.

### WARNING

Always ensure that the ignition switch is turned “OFF” before the pedal operation is tested. Vehicle can accelerate abruptly if vehicle is set to the “F” or “R” position and potentially cause severe injury to persons or damage to property. Do not drive if brakes are not working correctly.

## 2.2.5 Steering



Fig. 2.4

Check steering for excessive free play:

Before driving:

- Move steering wheel up and down, and back and forth.
- Turn steering wheel slightly left and right.

If too much free play is observed, or any unusual sounds appear from any of the components, consult a qualified repair shop. Garia recommends that maintenance is provided by an Authorized Garia Service Dealer.

### 2.2.6 Reverse warning indicator



Fig. 2.5

Control the reverse warning indicator function by selecting "R" on the ignition switch and reversing slowly. Make sure to operate safely and with sufficient space when reversing. The audio warning signal should be activated. If this does not happen, please consult a qualified repair shop. It is recommended that maintenance is provided by an Authorized Garia Service Dealer.

## 2.2.7 Pedal operation

Perform the following check on the pedal operation to ensure that pedals are working correctly as specified below.

### ⚠ WARNING

Always ensure that the ignition switch is turned “OFF” before the pedal operation is tested. Vehicle can accelerate abruptly if vehicle is set to the “F” or “R” position and potentially cause severe injury to persons or damage to property.

#### 2.2.7.1 Accelerator pedal

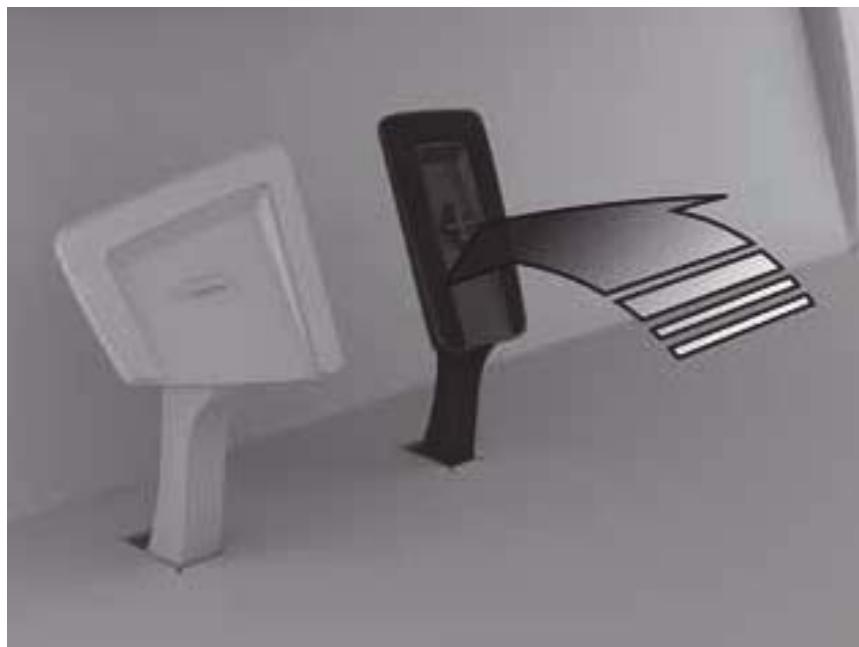


Fig. 2.6

Before driving, ensure that (with the ignition key turned to “OFF”):

- The accelerator pedal is working correctly and moving freely.
- The pedal returns to its original position when released. The original position is when the pedal is positioned as illustrated above.

### 2.2.7.2 Brake pedal



Fig. 2.7

Before driving, ensure that:

- The brake pedal feels firm and cannot be pressed more than 2/3 of the total pedal travel distance.
- The pedal returns to its original position when released. The original position is when the pedal is positioned as illustrated above.

#### **⚠ WARNING**

Always ensure that the ignition switch is turned “OFF” before the pedal operation is tested. The vehicle can accelerate abruptly if the vehicle is set to the “F” or “R” position and potentially cause severe injury to persons or damage to property.

## 2.3 IN USE

- Keep the entire body inside the vehicle at all times. Remain fully seated and hold on to speed handles or other objects while driving.
- If the vehicle is equipped with seat belts, always keep seat belts fastened whenever seated.
- Do not start vehicle until all passengers are fully seated.
- The driver must keep both hands on the steering wheel and the eyes focused in the direction in which the vehicle is driving.
- Show extra caution in populated areas or when reversing. Always reverse slowly and pay attention to the road and surroundings.
- Avoid accelerating or decelerating in an abrupt manner.
- Always adjust the speed to the current terrain.
- Drive slowly when making turns and when going up and down slopes. Never turn steering wheel sharply at higher speeds.
- Never drive on slopes at an angle, use brakes to reduce speed when driving down-hill.

Golf Cars can cause serious injury or damage if used improperly or not maintained according to the vehicle's maintenance program. Before the vehicle is put into service, all necessary safety precautions must be taken and all the additional rules and regulations of the area where the vehicle is being used must be observed.

Golf Cars should be safe to use as long as the safety precautions explained in this user's manual and on the vehicle are upheld. Make sure that the vehicle is always driven according to the current conditions and adjust the speed and driving pattern according to the terrain in which the vehicle is currently moving.

It is expected that many vehicles will be used for a variety of tasks beyond the original intended use of the vehicle. As a consequence of this, it is impossible to anticipate and warn against every possible combination of circumstances that may occur. No warnings can take the place of good common sense and prudent driving practices.

### 2.3.1 Driving on golf courses and similar terrains

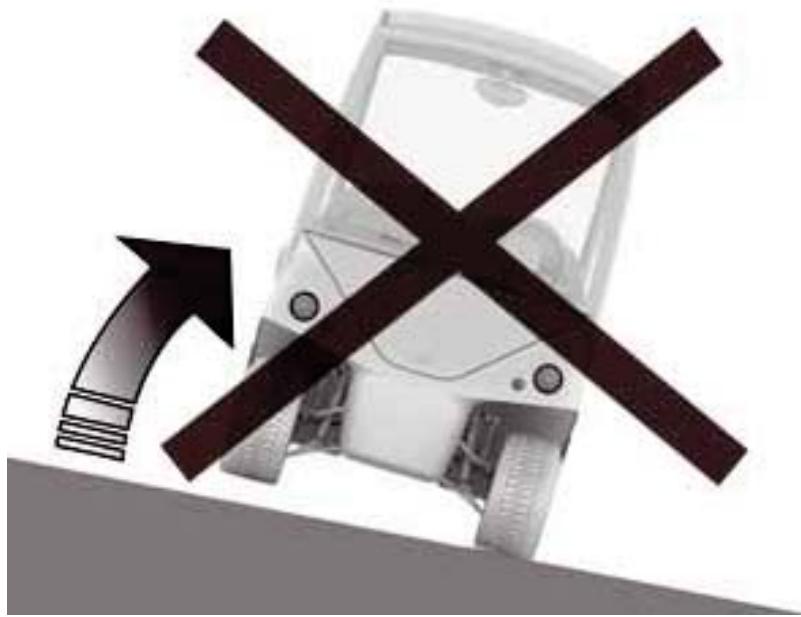


Fig. 2.8

- Hills: Driving up and down steep hills and slopes should be avoided or at a minimum driven with the highest level of caution. If driving down hills or slopes is a necessity, do this as slowly as possible while braking with the brake pedal. Furthermore, driving must not be at an angle that makes the vehicle tilt sideways.

**Warning:** Risk of falling out!

Avoid parking the vehicle on hills or tilted at an angle. Always make sure to park the vehicle on as level grounds as possible.

- Sharp or blind bends: Use great caution round sharp or blind bends, adjust the speed, so the turn can be made in a safe manner. Be prepared to stop the vehicle or avoid possible obstacles if dangerous situations occur.
- Wet areas: Driving on wet grass or similar areas reduces the contact between the vehicle and the surface and can cause instability. Hence, always drive slowly and with caution, so you are always driving in a safe manner.

#### **WARNING**

Always ensure to drive carefully at all times. Driving fast, irresponsibly or in any way not according to referred to in this user's manual can cause severe injuries or death to persons and property damage.

### 2.3.2 Driver qualifications

The driver of the vehicle should at least as a minimum have read this complete user's manual, have full knowledge and understanding of the use of this vehicle and be in possession of a valid driver's license for motor vehicles.

The driver is required to drive responsibly and safely, in order to avoid damage to property and/or injuries to others or him-/herself.

The driver must know about the rules and regulations for driving Golf Cars of the area where the vehicle is operated, and must follow these at all times. No persons under the age of 16 shall be allowed to operate the vehicle.

In areas with pedestrians and other traffic, the driver must exercise caution, drive slowly and pay attention to the surroundings.

### 2.3.3 Safety precautions when maintaining the vehicle

When maintaining the vehicle, make sure to follow all safety precautions located on the vehicle, described in this user's manual, in the Garia Workshop Repair Manual and especially the following:

- Ensure that the vehicle has been properly secured and cannot come move, when vehicle is being maintained.
- Ensure that the vehicle has the correct lifting support before any repair and maintenance is carried out.
- Avoid fire hazards and ensure that there is proper fire extinguishing equipment within reach.
- The electrical system must be disconnected before ANY work is carried out on this vehicle. (See chapter 4 for instructions on disconnecting power)
- Make sure that warning and information labels are in a readable condition. If any label needs replacing to make the vehicle conform to the correct safety standards, please consult a qualified repair shop. It is recommended that maintenance is provided by an Authorized Garia Service Dealer.
- Always use correct insulated tools when working on and around electrical installations, such as batteries, on the vehicle.
- Maintain all components that have an effect on safety and the safe operation of the vehicle. This particularly includes the brakes, steering and warnings devices.

- After each repair, service or other maintenance, the vehicle must be test driven by qualified and authorized personnel on a specifically designed area, without pedestrians or other traffic, to ensure that the vehicle is adjusted correctly and functions as specified.
- Ensure that all maintenance service checks are filled out correctly in the applied quick guide and service book.

### **2.3.4 Maintenance to ensure safety**

To sustain safety it is important that the vehicle is maintained correctly, and the following is recommended to follow to obtain the best possible safety.

- Maintenance is preventative: Always service and maintain the vehicle according to maintenance schemes stated in this user's manual. By doing this, the car will attain the highest level of safety and the warranty will be upheld. (See chapter 6 and 7 of this manual) If the specified service intervals are not adhered to, all applicable warranties will be void.
- Repairs: Allow only qualified, educated and authorized personnel to inspect, service and repair the vehicle. All applicable warranties will be void, if repair procedures are not followed as described in the Garia Work Shop and Repair Manual.

### 3. BATTERIES



Fig. 3.1

#### 3.1 BATTERY SAFETY WARNING AND INSTRUCTIONS

Please read and comply with all of the following safety-related instructions and warnings prior to operating and maintaining the batteries in this vehicle. Failure to comply with these instructions may result in serious personal injury, death and/or property damage.

## **⚠ DANGER**

### **EXPLOSIVE GASES!**

- Batteries generate explosive gases! Do not smoke in the vicinity of any batteries.
- Keep sparks and flames away from the batteries, vehicle and service area.
- Ventilate the area when charging batteries or operating a vehicle in an enclosed space.
- Wear a full face shield and rubber gloves when working on or near batteries.
- Keep flames, sparks, cigarettes and fire away from batteries at all times. The gas exhaust from the batteries causes fire and explosions. This will cause SERIOUS INJURY or DEATH.

### **RISK OF ELECTRIC SHOCK!**

- The electricity stored in batteries can cause electric shock resulting in serious bodily injury or death, even at low voltages.
- Use insulated tools when working near batteries or electrical connections.
- Use extreme caution to avoid short circuiting of components or wiring.
- Do not wear metal jewelry such as rings, watches, chains, etc., when servicing the vehicle, watering system, battery or battery charger.

# 03 BATTERIES

## 3.1.1 Battery safety

- Check that all connections and battery cables are securely attached to the terminal and tight; too loose or too tight connections can result in post breakages, meltdown or fire.
- Do not lay any objects on batteries or terminals to avoid short circuits.
- Keep sparks, flames and metal objects away from batteries.
- The electrolyte is a solution of acid and water, so avoid skin contact.
- If acid comes into contact with your skin or eyes, flush with water immediately.
- Charge batteries in a well-ventilated area, as batteries produce gas fumes when charging.
- Never add acid to the battery.

### WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns or other damages. It contains sulfuric acid. Avoid contact with skin, eyes or clothing.

Do not transport, store, handle or operate batteries except in an upright position.

Wear a full face shield and rubber gloves when working on or near batteries

**Emergency treatment:**

**EXTERNAL:** Flush with water immediately

**INTERNAL:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Seek medical attention.

**EYES:** Flush with water for 15 minutes and acquire prompt medical attention.

Batteries produce explosive gases. Keep sparks, flames cigarettes or similar away from the batteries.

Always ensure proper ventilation when charging or using in enclosed space. Always shield eyes when working near batteries.

**KEEP OUT OF REACH OF CHILDREN.**

### 3.2 GENERAL INFORMATION

This Garia Golf Car is equipped with six 8 Volt lead acid batteries which provides the power for its operation. To ensure the best operation, always make sure that the vehicle is maintained according to specified maintenance intervals. The batteries used in this vehicle are Trojan® T-875 Wet Lead Acid Cell Batteries. The batteries are made of 65% water and 35% acid with an electrolyte plate inside the battery.

### 3.3 CHARGING OF BATTERIES

Always follow the safety precautions mentioned below to avoid personal injury or property damage when maintaining or storing batteries:

- Always follow procedures that are in accordance with applicable laws and regulations when charging and using charging facilities.
- Periodically inspect the facilities and the procedures used when charging and storing batteries to ensure that the correct safety conditions are in place.
- The vehicle shall only be charged using a vehicle-specific Garia charging cable. The cable is according to the provisions of UL standards 2202.

Only charge batteries with the integrated Delta-Q on-board charger. This charger is equipped with algorithms that allow the most optimal charging session at any state of charge. It is carefully designed for the vehicle's batteries. Do not attempt to charge batteries in other ways than by using the integrated on-board charger. By using other chargers, the risk of over- and undercharging occurs, which can shorten the capacity of the batteries and potentially destroy them. The integrated on-board charger is programmed to maximize battery performance.

The optimal charging time depends on a range of different factors. It is expected that the battery can charge from a 30% state to a fully charged state in approximately 7 hours. This is, however, dependent on the weather conditions, the state of charge and the general condition of the batteries.

When charging batteries, please be aware of the following:

- Batteries should be fully charged after each use.
- Lead-acid batteries do not have a memory effect and therefore do not need to be fully discharged before recharging.
- Charge only in well-ventilated areas
- The batteries will gas (bubble) towards the end of charge to ensure the electrolyte is properly mixed.
- Never charge a frozen battery
- Avoid charging at temperatures above 120°F (49°C)

# 03 BATTERIES

## 3.4 EQUIPMENT FOR HANDLING BATTERIES

- Goggles, gloves and protective clothing: Always wear protective clothing, acid-proof gloves and goggles when handling lead acid batteries and remove all jewelry. Batteries are corrosive and failure to follow the above mentioned may result in personal injury as lead acid can cause severe burns and destroy clothing. Jewelry is a risk if it comes in contact with the terminals of the battery. Metals in contact with battery poles can cause arcs which can result in severe personal injuries.
- Distilled or treated Water (i.e. de-ionized, reverse osmosis, etc.)
- Rubber hand held wrench
- Volt meter (for testing voltage)

Handling of batteries should not occur if the user has no prior experience of handling batteries. Please refer to Trojan® Battery's website for more information regarding battery handling: [www.TrojanBattery.com](http://www.TrojanBattery.com)

### CAUTION

Always keep baking soda and great amounts of water nearby. This will help neutralize any possible acid spills from battery openings and prevent corrosive damage on batteries. Avoid all skin contact with acid.

## 3.5 BATTERY MAINTENANCE AND CARE

Maintaining batteries properly includes correct frequent charging, ensuring the correct level of fluid in the batteries as well as general removal of corrosion, dust, dirt and/or similar.

### WARNING

Watering a battery before charge (or with a low charge level) can lead to boil-over resulting in potential bodily injury and potential damage to the watering system, battery and vehicle.

Ensure that the work area is dry when servicing the vehicle, watering system, battery or battery charger.

### 3.5.1 Watering batteries

The batteries need to be watered periodically. The frequency depends upon battery usage and operating temperatures. Check new batteries every few weeks to determine the watering frequency of the vehicle. It is normal for batteries to need more watering as they age.

Depending on the local climate, charging methods, application, etc. it is recommended that batteries are checked at least once a month until they provide information on how often the batteries need refilling.

#### Important things to remember:

1. Do not fill the batteries with water before charging. This will probably cause acid to overflow from the battery, consequently losing capacity and causing corrosion.
2. Do not use water with a high mineral content. **Use distilled or deionized water only.** Fully charge the batteries prior to adding water. Only add water to discharged or partially charged batteries if the plates are exposed, and only until the plates are no longer exposed.

### 3.5.2 Using the HydroLink™ on-board water filler system

Lead acid batteries require frequent refilling of **distilled or deionized water**. The Garia Golf Car is equipped with the Trojan® HydroLink™ Watering system, which eases the refilling of water to the batteries. An approved Flow-Rite water supply is required for correct refilling of the batteries,

**Use only an approved Flow-Rite water supply** (visit [www.flow-rite.com](http://www.flow-rite.com) for a list of approved Flow-Rite water supplies). Please refer to Flow-Rite's instructions for proper operation.

Use of unapproved water supply or modification of approved water supply can lead to system failure and will void applicable warranties.

Only fill batteries after they have been fully charged, and require water. Watering a battery before charge (or with a low charge level) can lead to boil-over resulting in potential bodily injury and potential damage to the watering system, battery and vehicle.

#### **WARNING**

If at any time during the filling process a valve failure occurs, disconnect immediately or too much water may be added to the cell. This can cause the battery to overflow acid, causing corrosion and potential personal injury or damage to batteries.

# 03 BATTERIES

## 3.5.3 Using the flow-rite hand pump

To operate enclosed the hand pump for watering the batteries, please follow the procedure below.

Note: Other Flow-Rite products recommended for the Trojan® HydroLink™ Watering system can also be used. Please see [www.flow-rite.com](http://www.flow-rite.com) for more information.

### STEP 1

Check hand pump for proper operation.

Insert the hand pump filler assembly into a jug of distilled water. Prime bulb by squeezing until it is filled with water.

Ensure that the device is free of holes or other defects.

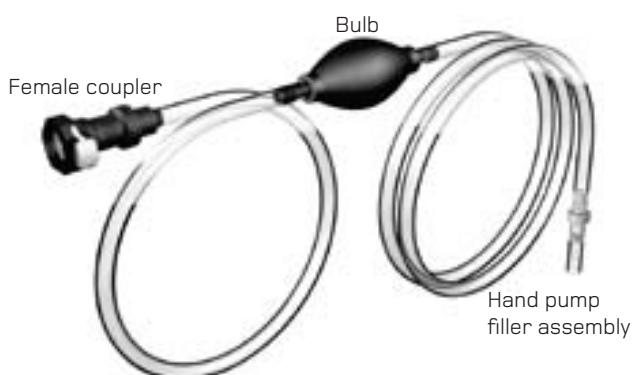


Fig. 3.2

### STEP 2

Remove the dust cover on the battery hose.



Fig. 3.3

### STEP 3

Mate Couplers

Insert the male coupler on the HydroLink™ Watering System into the female coupler on the Flow-Rite Hand pump.



Fig. 3.4

**STEP 4**

Fill water to batteries.

Squeeze the bulb with firm pressure to begin pumping water into the battery cells. When the bulb becomes firm, all cells are full and filling is complete.



Fig. 3.5

**STEP 5**

Disconnect

When the bulb becomes firm, and not before, immediately disconnect the couplers by depressing the push button on the female coupler. Disconnecting before the bulb becomes firm will lead to under-filled cells that will impact the battery's performance and shorten its life.



Fig. 3.6

**STEP 6**

Replace dust cover

Place dust cover back over the male coupler. Do not push cover past the large barb on the coupler.

**TIP:** If the dust cover is slightly squeezed when sliding it over the coupler, it will create a vacuum, allowing it to hold tightly.



Fig. 3.7

## 3.5.4 Preventive maintenance

### Inspection of batteries

- Examine the outside appearance of the battery. Check the tops of the battery and terminals. These should always be clean, free of dirt, debris and corrosion.
- Make sure the outside of the batteries remain dry at all times.
- If any fluids are present on the battery top, this could indicate that the battery is being over-watered or that a malfunction in the Trojan® HydroLink™ System has appeared. If so, contact your local repair shop, as there may be a problem with the installation and it needs to be serviced. Only allow a trained battery service technician to service batteries. It is recommended that battery maintenance is provided by a trained Authorized Garia Service Dealer in order to ensure the best possible treatment of the vehicle.
- Check battery cables and connections, ensure that all connections are in good working order and replace connections that are damaged and worn. Tighten all loose connections. It is recommended that battery maintenance is provided by a trained Authorized Garia Service Dealer in order to ensure the best possible treatment of the vehicle.
- Electrolyte levels: It is recommended that the electrolyte levels are checked in each cell for accuracy after the system has been installed and operational for three months. Use the 'Independent Water Level Indicator' to check the electrolyte levels. HydroLink™ comes with an Independent, non-mechanical Water Level Indicator that is simple to read: white means that the battery needs water and black means that the battery has enough water.



Fig. 3.8

Your HydroLink™ Watering System requires regular preventative maintenance on at least a quarterly basis.

#### 3.5.4.1 Check all screens and/or filters on water filling supplies

Clean or replace all filters and line strainers as necessary. Failure to do so can cause a reduction in the water pressure and flow rates needed to operate the water filling system properly. A filter screen can be found on the inlet of all regulators, and a line strainer on all supply hoses. Pump powered water supplies include a strainer on all suction hoses. For deionizers, be sure to replace the filter cartridges as indicated by the water quality light. Consult your water supply instructions for detailed instructions.

#### 3.5.4.2 Inspect the condition of all tubing connections and couplers and the water filling system

Make sure that all parts are in good working condition and are secure, leak free and properly connected. The coupler must have an O-ring and dust cover properly attached.

### 3.5.5 Cleaning batteries

- Clean the top of the battery, the terminals, and all connections with a cloth or brush with a solution of baking soda and water (ensure that none of the baking soda solution gets inside of the battery). Use 1lb of baking soda for 1 gallon of water (120g for 1 litre of water).
- Rinse with plain water and dry the battery
- If possible, add a thin layer of terminal protector (Available at most battery dealers or auto parts stores).
- Always keep batteries dry and clean.

### 3.5.6 Removing corrosion from battery poles

Make sure that the poles and the surface of batteries are clean at all times. To remove corrosion, add a solution of water and baking soda. Use 1lb of baking soda for 1 gallon of water (120g for 1 litre of water). Do not allow any cleaning solution to enter the battery cells. If baking soda is not available, a terminal brush can be used to clean the battery poles. Terminal brushes can be found at most local hardware supplies.

# 03 BATTERIES

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## 3.6 STORAGE OF BATTERIES

- Charge battery before placing in storage.
- Store in a cool, dry location, protected from elements that can damage batteries.
- Disconnect from equipment to eliminate potential electric loads that may discharge the battery.
- Batteries gradually self-discharge during storage. Monitor the specific gravity or voltage every 4-6 weeks. Stored batteries should be given a boost charge when they are at 70% state of charge (SOC) or less.
- When batteries are taken out of storage, recharge before use.

### 3.6.1 Storage in hot environments (greater than 90°F (32°C))

Avoid direct exposure to heat sources, if possible, during storage. Batteries self-discharge faster in high temperatures. If batteries are stored during hot, summer months, monitor the specific gravity or voltage more frequently (approximately every 2-4 weeks).

### 3.6.2 Storage in cold environments (less than 32°F (0°C))

Avoid locations where freezing temperatures are expected during storage if possible. Batteries can freeze in cold temperatures if they are not fully charged. If batteries are stored during cold periods, it is critical that they are kept fully charged. Never charge a frozen battery.

### 3.6.3 Water supplies

Water supplies must be drained and stored in an empty state if they will be exposed to freezing temperatures. Failure to do so can cause permanent damage to the watering supply.

### 3.6.4 Watering system

If the vehicle is taken out of service or put into storage for a period of 6 weeks or longer, the HydroLink™ Watering System will require seasonal maintenance. No special steps need to be taken for winterization of a HydroLink™ Watering System that is installed on the batteries; however, the following steps need to be followed when bringing the vehicle back into service:

1. After the batteries have been fully charged/equalized, check the HydroLink™ water

level indicator on each battery and water if needed.

2. Return the vehicle to its regular service
3. Restart the vehicle's regular watering schedule (waiting at least 1 week until next watering).

### **3.7 GENERAL INFORMATION ABOUT TROJAN® T-875 BATTERIES**

- A new battery will not deliver its full rated capacity. This is normal and should be expected as the battery needs to be 'worked up' over time.
- Trojan® batteries take between 50-100 cycles to 'work up' before providing full peak capacity.
- When operating batteries at temperatures below 80°F (27°C), they will deliver less than the rated capacity. For example at 0°F (-18°C), batteries will deliver 50% of its capacity and at 80°F (27°C) at battery will deliver 100% of its capacity.
- When operating batteries at temperatures above 80°F (27°C), they will deliver more than the rated capacity, but the life of the batteries will be reduced.

The life of a battery can be difficult to predict as, among other things, it varies with charging cycles, frequency of usage and level of maintenance.

For further information regarding Trojan® batteries, please refer to Trojan® Battery's official website: [www.TrojanBattery.com](http://www.TrojanBattery.com)

For further information regarding the HydroLink™ Watering system with Snake™ Tubing, please refer to Trojan® Battery's official website: [www.TrojanBattery.com](http://www.TrojanBattery.com)

# 03 BATTERIES

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## 4. OPERATION

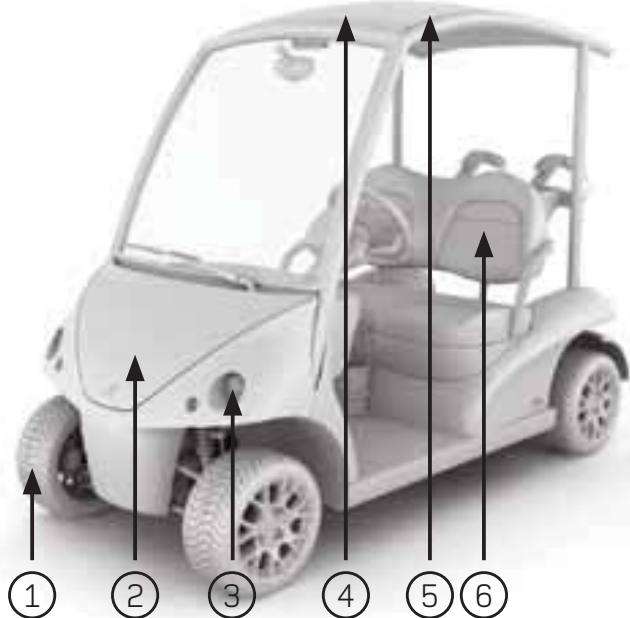
### 4.1 OVERVIEW



Fig. 4.1

1. Indicator stalk
2. Steering wheel
3. Instrument cluster
4. Brake pedal
5. Ignition switch
6. Accelerator pedal

## 04 OPERATION



1. Front wheel right
2. Bonnet
3. Headlight
4. Air scoop
5. Roof
6. Seats

Fig. 4.2



Fig. 4.3

1. Speed handles
2. Rear wing
3. Rear wheel left
4. Rear fender
5. Load area
6. Multifunctional rear section
7. Rear lights

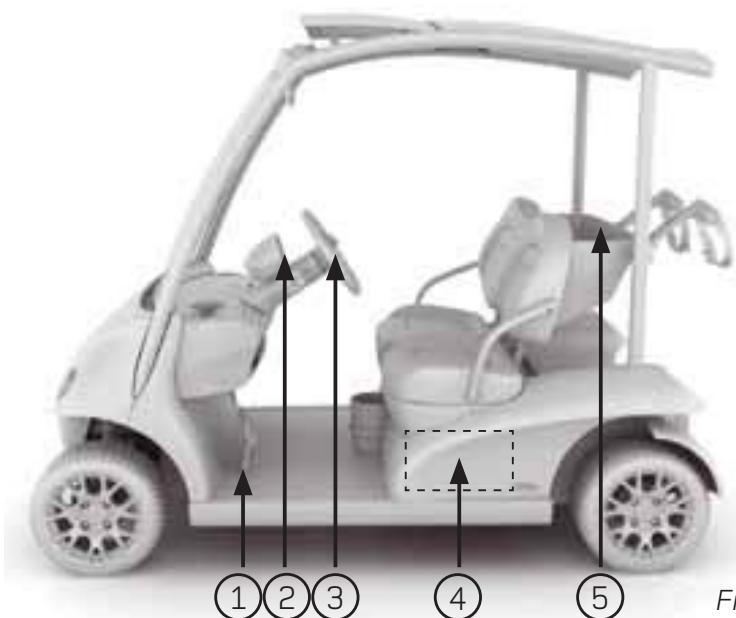


Fig. 4.4

1. Pedals
2. Instrument cluster
3. Steering wheel
4. Batteries
5. Utility box

#### 4.2 IGNITION SWITCH



Fig. 4.5

Ignition switch functions:

**OFF:** Most electrical applications are disabled. The refrigerator will function for an additional two hours, if activated whilst the ignition switch is turned to "OFF". The interior light and the 12V plug will still be functioning. The key can be removed in this position.

**R:** Reverse. When the accelerator pedal is engaged, the parking brake releases automatically. The vehicle reverses. All electrical functions are in function (affecting battery power). **Note:** To reverse, turn key to N before turning to R. The reverse warning indicator is activated when vehicle is reversing.

**N:** Neutral. The parking brake is engaged when the vehicle comes to a full stop. The vehicle can be temporarily parked, all electrical applications are in function (affecting battery power).

**F:** Forward, when the accelerator pedal is engaged, the parking brake releases automatically. The vehicle drives forward. All electrical functions are in function. (affecting battery power).

#### ⚠ WARNING

Never push the accelerator pedal when turning the ignition key. The vehicle may move suddenly if not operated correctly.

## 4.3 MAIN POWER SWITCH

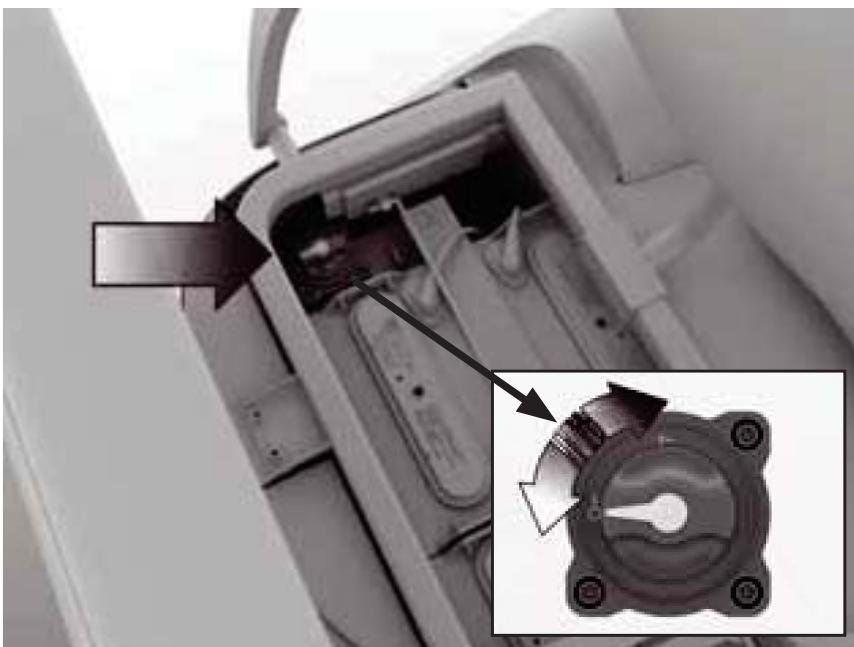


Fig. 4.6

The main power switch is located on the right side of the battery compartment. The switch disables all electrical functions except the automatic parking brake, the ability to charge the vehicle and the back-up power for the instrument layout unit.

When storing the vehicle for longer periods of time, it is recommended that the main power is switched off, in order to experience as little discharging as possible.

When servicing or repairing the vehicle (especially the electrical system) always turn the main power switch to "OFF".

### **⚠ WARNING**

Serious injuries can occur when working on the electrical system, if the main power switch is turned to "ON". Always turn main power switch "OFF" before working on the electrical system of the vehicle.

#### 4.4 PARKING BRAKE



Fig. 4.7

This vehicle is equipped with an automatic parking brake system. When the vehicle comes to a halt, the automatic parking brake will engage automatically after a short delay (approximately 3 seconds). Until the parking brake is activated, an applied motor brake will keep the vehicle steady until the parking brake is activated.

When the car starts moving in response to the accelerator pedal, the parking brake will release automatically. The automatic parking brake can be switched off for towing or repairing needs, however, note that this also enables most electrical functions on the vehicle.

When the vehicle is not driving, the parking brake symbol appears in the instrument cluster, unless if the vehicle power has been turned off by either the ignition or main power switch. The parking brake will still be activated when vehicle power is turned off, although this does not appear in the instrument cluster.

If the parking brake is not functioning as described above, ensure that a qualified repair shop performs a parking brake check. Garia recommends that service is provided by an Authorized Garia Service Dealer.

## 4.5 DRIVING, ACCELERATING

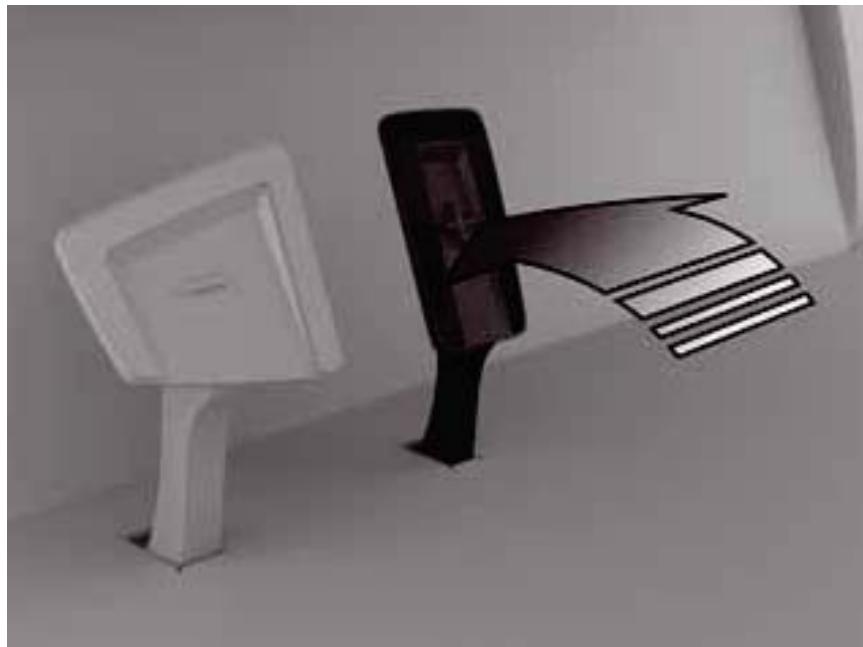


Fig. 4.8

1. Turn Main power switch "ON"
2. Push the brake pedal and select "N" and following "F" for driving forward (or "N", "R" for reversing, please see page 29)
3. Make sure that no people or obstacles are in the risk of being injured or damaged by the vehicle. Push the accelerator pedal very gently and the vehicle will start to move. Always accelerate carefully.

### **⚠ CAUTION**

Never bring vehicle to a halt while using the accelerator. Always use brakes to prevent the vehicle from moving.

Never turn the ignition key while the vehicle is in movement.

### **NOTE**

When accelerator pedal is engaged, the parking brake will release automatically.

#### 4.6 STOPPING, BRAKING



Fig. 4.9

To brake or stop the vehicle, push the brake pedal carefully. The vehicle will gently come to a halt. When the vehicle has come to a full stop, the automatic parking brake will engage. The vehicle will not move until the accelerator pedal is engaged.

If an emergency occurs, the brakes are designed to handle an emergency braking incident. However, after any emergency braking incident, carry out a brake maintenance check. Please consult a qualified repair shop. Garia recommends that maintenance is provided by an Authorized Garia Service Dealer.

#### WARNING

Any damage or malfunction on the braking system can result in severe injury or death. Always make sure that the brakes are fully functioning.

## 4.7 ROUGH TERRAIN DRIVING



Fig. 4.10

Always make sure that the greatest precautions are taken when driving in rough terrains. The vehicle's ground clearance is 6,5 inches (approx. 165 mm). Always drive slowly and always be ready to stop. Rough terrain driving can cause situations that are damaging to the vehicle, therefore always drive very cautiously. Avoid driving in hilly areas and at tilted angles. The weight distribution of the vehicle can cause it to tip unexpectedly when placing the vehicle at excessive tilted angles. The Garia Golf Car is not constructed for rough terrain use, and this should be avoided as far as possible.



Fig. 4.11

## 4.8 HILL HOLD AND ROLL BACK

The Garia Golf Car features a hill hold function which keeps the car at steady speeds when starting and stopping on a slope.

When stopping, the motor will keep the car steady for two (2) seconds before the parking brake engages.

If the ignition switch is not turned off, the controller will remember the amount of torque added when stopping and apply the same amount of torque when starting again to ensure a smooth start and a limited roll back.

Should motor stall appear, the parking brake will engage immediately and the controller will need to be reset with the key switch to "OFF", followed to "N" and finally to "F" to start driving (or "R" for reversing).

## 4.9 EMERGENCY BRAKING

If the key switch is turned into the "OFF" position when the vehicle is moving, motor braking will stop the vehicle immediately. This type of braking can cause personal injury. The parking brake will be engaged when the vehicle has come to a full stop.

**Note:** This type of braking is for **emergency use only**, if the service brake should fail. It can potentially cause personal injuries or damage to the drive train or tires of the vehicle.

After any emergency braking incident, please contact a qualified repair shop for a brake safety and function check. It is recommended that maintenance is provided by an Authorized Garia Service Dealer.

### WARNING

**Risk of personal injury! This tool is for emergency braking only.**

Brake lights will not come on when performing emergency or motor braking. Only perform this type of braking without closely-following traffic and only in emergency situations.

Any damage to or malfunction of the braking system can result in severe injury or death. Always make sure that the brakes are fully functioning.

## 4.10 MOTOR BRAKING

The Garia Golf Car is equipped with a motor brake function, that allows the user to brake and stop the vehicle without activating the service brake. It is recommended only to use the motor braking function in controlled emergency braking situations. How to use the motor brake when driving forward:

- Turn key switch to "R".
- Release accelerator pedal.
- Push accelerator pedal.
- Depending on how much the accelerator pedal is pushed, the motor brakes accordingly.
- Vehicle comes to a full stop.
- For reversing, release and push accelerator pedal again. Please see page 15 of this manual for information regarding reversing.

If the situation occurs when vehicle is reversing, follow the above mentioned steps, only by turning the key switch to "F" instead of "R".

## 4.11 BRAKING WITH PARKING BRAKE

If the parking brake should engage during driving at higher speeds than 6 mph (10 km/h) please contact a qualified repair shop for a parking brake safety and function check. Parking brake performance degradation can occur if it has been subject to unintended use. It is recommended that maintenance is provided by an Authorized Garia Service Dealer.

### **WARNING**

**Risk of personal injury! This tool is for emergency braking only.**

Brake lights will not come on when performing emergency or motor braking. Only perform this type of braking without closely-following traffic and only in emergency situations.

Any damage to or malfunction of the braking system can result in severe injury or death. Always make sure that the brakes are fully functioning.

## 5. VEHICLE EQUIPMENT

### 5.1 DASHBOARD OVERVIEW

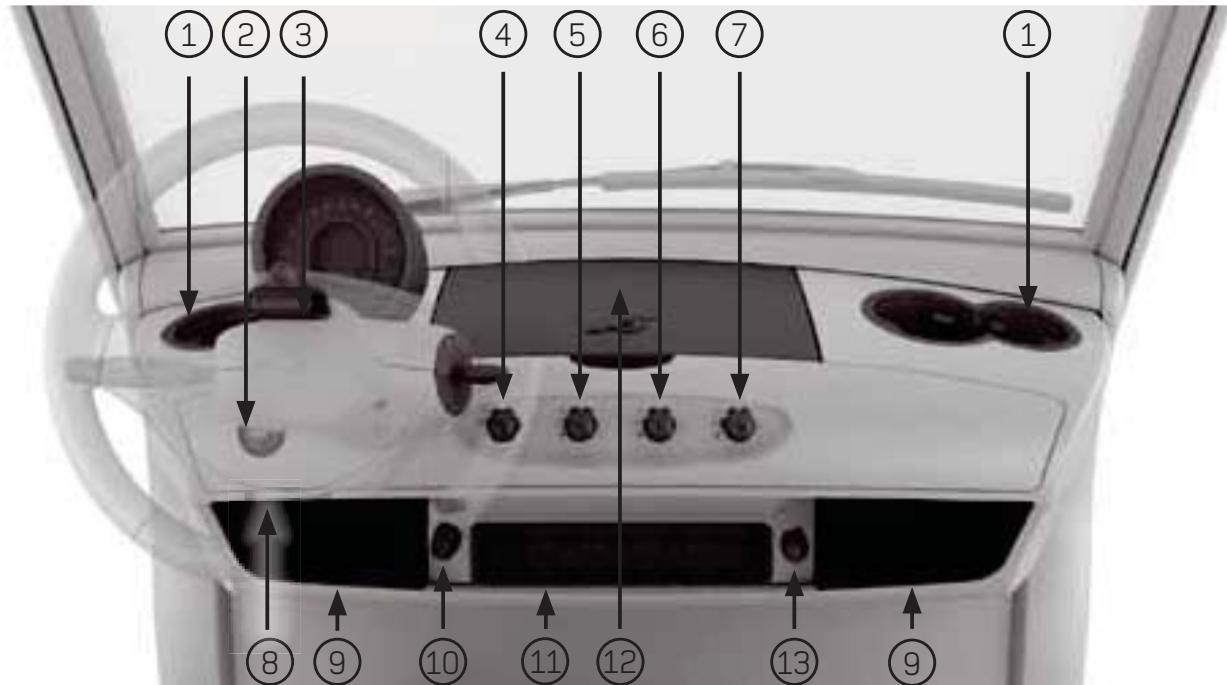


Fig. 5.1

1. Cup holders, two in each side.
2. Hazard light switch
3. Steering wheel: pen holder and scorecard holder.
4. Heated windshield button (optional)
5. Windshield wiper/washer (optional)
6. Interior light button (optional)
7. Refrigerator button (optional)
8. Bonnet opener button
9. Storage space left and right in dashboard.
10. Charger inlet. For charging of vehicle batteries.
11. Golf ball- and tee holder.
12. Storage room lid (refrigerator lid, if present)
13. 12V electrical outlet.

## 5.2 SEATS

### 5.2.1 Adjusting seat (optional):



Fig. 5.2

If vehicle is equipped with an adjustable seat arrangement (optional), it allows the user to choose from 4 different seating positions in order to create the best riding comfort. The lever placed just above the bin will release the seating mechanism, and the seat can be adjusted back and forth in relation to the steering wheel.

Always ensure that the seating position is adjusted correctly before driving. Do not adjust the seat while vehicle is in motion.

A correct seating position is a relaxed position where all pedals and controls can be reached without difficulty.

#### **⚠️ WARNING**

Do not adjust the seat while vehicle is in motion. The seat shall only be adjusted while vehicle is parked. Adjusting seat while driving can cause lack of concentration and affect the handling, which can cause an accident, resulting in SEVERE INJURIES or DEATH.

### 5.2.2 Below the seats:



*Fig. 5.3*

The battery compartment is located below the seats. This contains the main power switch, the towing switch, the batteries, the brake level fluid indicator and the VIN (vehicle identification number). For access to the battery compartment, tip the seat as shown in fig. 5.3. Please see chapter 3 for information regarding the batteries.

## 5.3 INSTRUMENT CLUSTER FUNCTIONS AND WARNING LAMPS



Fig. 5.4

The instrument cluster unit combines all the information about the vehicle that the driver needs for proper operation.

1. Low beam.
2. Turn signal indicators.
3. Battery indicator.
4. High beam.
5. Heated windshield (optional).
6. Brake fluid warning level indicator.
7. Parking brake.
8. Refrigerator (optional).

### 5.3.1 Inner cluster explanation



Fig. 5.5

1. Speedometer.
2. Odometer, trip counter, operation counter.
3. Clock.
4. Service message (appears when service is needed).

### 5.3.2 Button on instrument cluster (left)



Fig. 5.6

1. Push button to change between overall distance and time as well as trip distance and trip time.
2. Hold button down to reset trip distance and trip time (approx. 3 seconds).

## 5.3.3 Button on Instrument cluster (right)



Fig. 5.7

The button on the right side of the instrument cluster adjusts the clock. To adjust, hold down the button on the right side of the instrument cluster.

- Hours will blink. Push repeatedly to set hours.
- Wait for approximately 5 seconds.
- Minutes start blinking. Push repeatedly to set minutes.
- Wait until minutes stop blinking (approx. 5 seconds).
- Clock is set.

## 5.4 INDICATOR STALK

Indicator stalk overview:

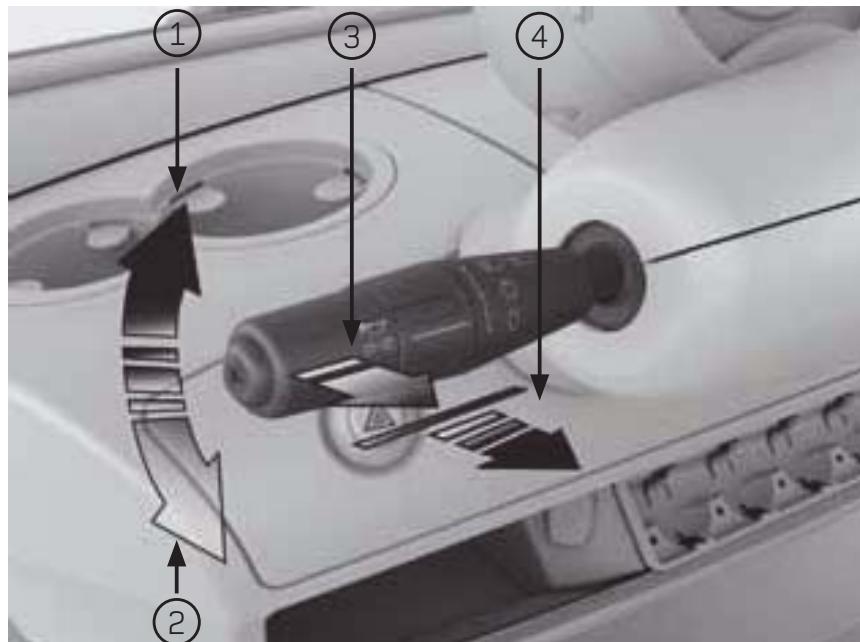


Fig. 5.8

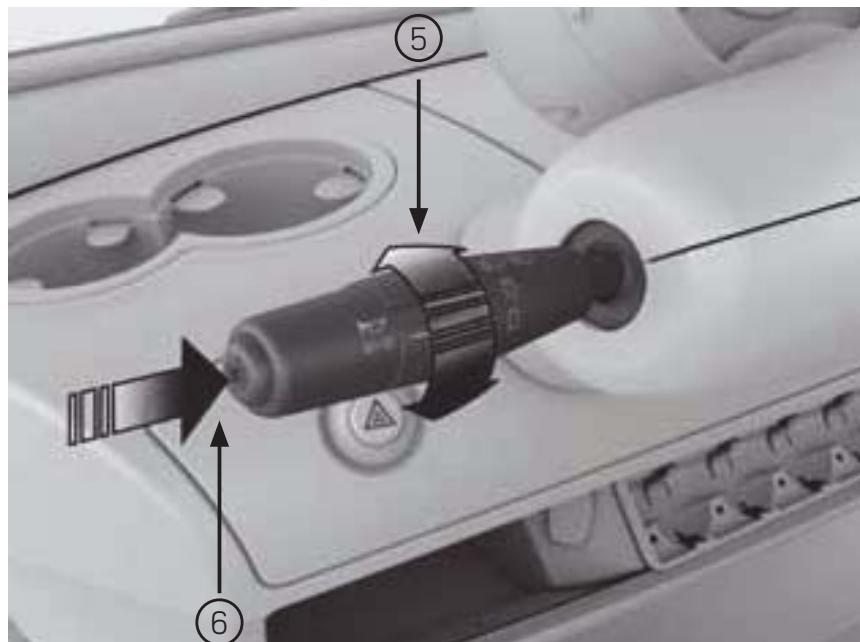


Fig. 5.9

1. Turn signal right.
2. Turn signal left.
3. High beam flash.
4. High beam on / off.
5. Light off / park light on / low beam on.
6. Horn.

## 5.5 AIR SCOOP

### 5.5.1 Opening the air scoop



Fig. 5.10

This Garia Golf Car is equipped with the Garia air scoop which allows air to reach the passengers while driving. The air scoop is adjustable in various steps and also fully removable.

To open the air scoop, push the lever upwards. The air scoop can be opened in 3 different angles.

### 5.5.2 Closing the air scoop



*Fig. 5.11*

To close the air scoop, pull the lever downwards, and the air scoop will close.

To fully remove the air scoop, open the air scoop to its maximum position, push the center lever to pull out the complete handle as illustrated and lift the air scoop out of its hinges.

## 5.6 STORAGE ROOM UNDER BONNET



Fig. 5.12

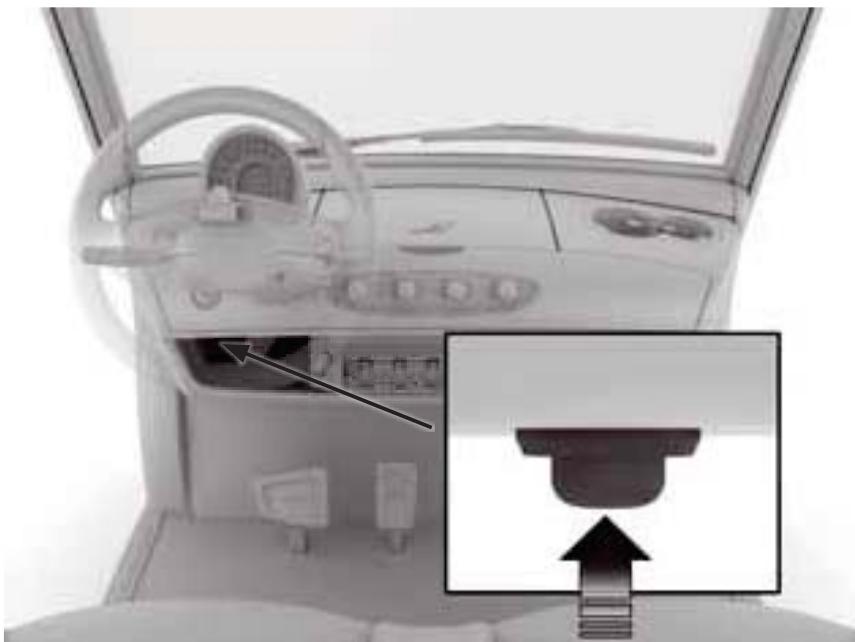


Fig. 5.13

The Garia Golf Car is equipped with a storage compartment under the bonnet of the vehicle. To open the bonnet, push the button for the bonnet mechanism on the dashboard. This compartment offers a lockable storage space which enables the user to leave the vehicle without having to remove all loose items from the vehicle. The bonnet can be opened by pushing the button on the dashboard as illustrated in figure 5.13, when the ignition switch is turned to "N" and the main power switch is turned "ON".

- **Do not drive while bonnet is open.**
- **Do not open bonnet while driving.**

## 5.7 BIN



Fig. 5.14

This bin offers the possibility of transporting your or your passenger's preferred beverages. The bin can also function as a trash can. The plastic insert is removable and the complete bin can be removed by opening the bin strap.

**Note:** Do not pull out the bin strap

### WARNING

**NEVER operate a vehicle under the influence of alcohol.** Driving under the influence of alcohol or drugs considerably reduces the ability to concentrate, focus, judge speed and distance and can result in severe personal injury, death or excessive material damage.

Garia strongly discourages the operation of any vehicle while intoxicated by alcohol, drugs or similar.

## 5.8 MULTIFUNCTIONAL REAR SECTION

### 5.8.1 Standard multifunctional rear section



Fig. 5.15

The Garia multifunctional rear section allows convenient transportation of two golf bags with an easy access to golf clubs.

Place golf bags in an angled position and tighten the straps that secure the golf bags during transportation.

#### **⚠ WARNING**

The construction of the multifunctional rear section can be a potential danger to people or property. Always act with caution and care around the multifunctional rear section, to ensure best handling and to avoid potential dangerous situations.

### 5.8.2 Removable multifunctional rear section (optional)

The multifunctional rear section can be mounted and removed by following the illustration.

#### 5.8.2.1 Removing the multiholder arm:



1. Open the lock lever
2. Turn the turn lever
3. Release the finger screw

Fig. 5.16



Pull out the multiholder arm.

Fig. 5.17

## 05 VEHICLE EQUIPMENT

### 5.8.2.2 Mounting the multiholder arm:



1. Turn the finger screw
2. Turn the turn lever
3. Lock the lock lever

Fig. 5.18

## 5.9 ADJUSTING MIRROR (OPTIONAL)

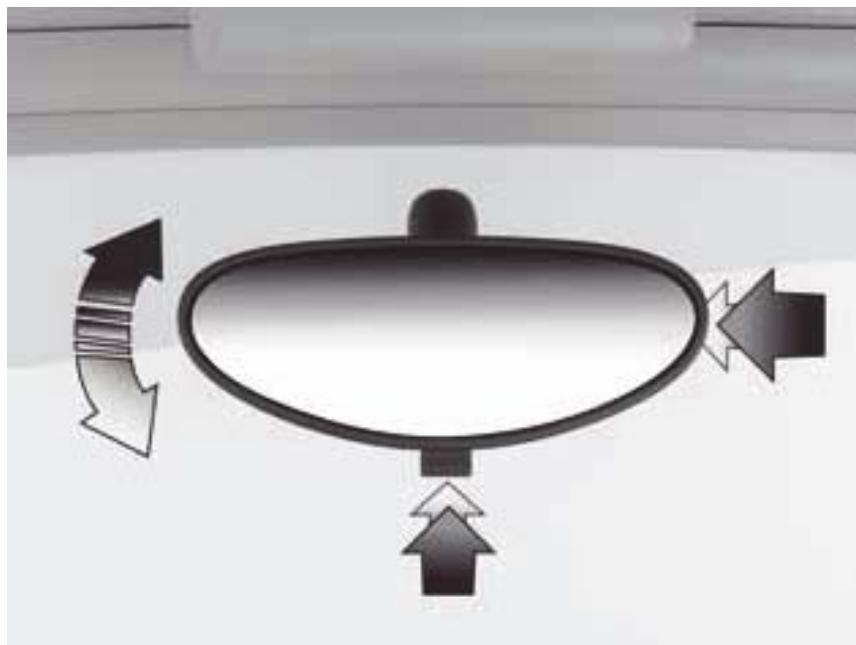


Fig. 5.19

Adjust the rear view mirror to ensure that the view to the rear is as unobstructed as possible. Wrong adjustment can cause dangerous traffic situations and cause accidents resulting in severe personal injury, death or material damage.

The mirror has a tip-function for convenience to avoid blinding from behind coming traffic. The anti-blinding function is activated by pushing the lever under the mirror forward.

## 5.10 REFRIGERATOR (OPTIONAL)



Fig. 5.20

The refrigerator provides cooling for foods and beverages when the vehicle is in operation.

When turned on, the refrigerator constantly provides cooling when the vehicle ignition switch is turned to "F", "N" or "R".

The refrigerator will continue its cooling function for an additional 2 hours after the ignition switch has been turned "OFF", if it is not turned off by its respective button.

The refrigerator will stop functioning, if turned off by the button on the dashboard or if the power is disconnected by the main power switch in the battery compartment.

### NOTE

The use of the refrigerator requires battery power and decreases the vehicle range. Avoid using optional extras excessively to avoid stalling while driving if battery power is low.

### 5.10.1 Energy saving tips

- Allow hot food to cool down before you place it in the refrigerator.
- Do not open the refrigerator more often than necessary.
- Do not leave the lid open for longer than necessary.
- Defrost the refrigerator once a layer of ice forms.

### 5.10.2 Defrosting the refrigerator

Humidity can form frost in the interior of the refrigerator. This reduces the cooling capacity. Defrost the refrigerator in good time to avoid this.

### 5.10.3 To defrost the refrigerator, proceed as follows:

- Remove the contents of the refrigerator.
- If necessary, place them in another cooling container to keep them cool.
- Switch off the refrigerator.
- Leave the cover open.
- Wipe off the defrosted water.

### 5.10.4 Cleaning and maintenance

- Occasionally clean the inside of the refrigerator with a damp cloth.

## ⚠ CAUTION

Danger of damaging the refrigerator!

Do not use abrasive cleaning agents or hard objects during cleaning as these can cause damage.

Never use brushes, scouring pads or hard and/or pointed tools to remove ice or to loosen objects which have frozen in place.

## 5.11 INTERIOR LIGHT (OPTIONAL)



Fig. 5.21

The interior LED light is placed in the headliner between the windshield and air scoop. Turn the button on the dashboard to activate or deactivate the interior light. Use only when vehicle is not in movement. Never drive while interior light is on, it can obstruct the vision of the driver, especially when driving in the dark.

### NOTE

The use of the interior light requires battery power and decreases the vehicle range. Avoid using optional extras excessively to avoid stalling while driving if battery power is low.

## 5.12 WINDOW WIPER / WASHER (OPTIONAL)

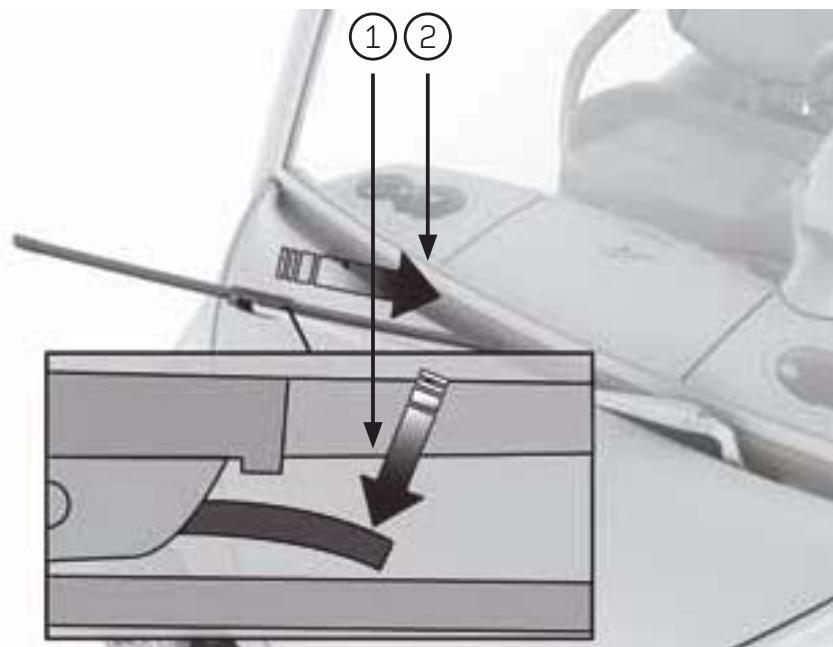


Fig. 5.22

The windshield wiper is activated by the button on the dashboard. The button location is illustrated on page 37 in figure 5.1. Turn the button one step to activate the wiping function. To activate the windshield washer function, turn the button another step, and release when sufficient washer fluid has been applied to the window.

Ensure that the wiper blade is always in the optimum condition. Always make sure that the blade is clean, to experience the best wiping performance.

When wiper blade is worn, Garia recommends that the wiper blade is replaced with an original Garia spare part for the best wiper performance.

## 5.12.1 Location of the window washer fluid (optional)



Fig. 5.23

Always make sure to have sufficient window washer fluid when driving. Refill with standard automotive windshield washer fluid and keep the correct levels within the "MAX" and "MIN" markings on the windshield washer fluid container.

### 5.13 HEATED WINDSHIELD (OPTIONAL)



Fig. 5.24

In foggy conditions or cold weather, the heated windshield provides easy defogging or defrosting of the windshield.

The heated windshield is activated via the button on the dashboard. If not deactivated by the same button, the heated windshield turns off automatically after 30 minutes of operation, unless power is turned off meanwhile.

When the heated windshield is in activation, a symbol appears in the instrument cluster. Please see page 40.

#### NOTE

The use of the heated windshield requires battery power and decreases the vehicle range. Avoid using optional extras excessively to avoid stalling while driving if battery power is low.

# 05 VEHICLE EQUIPMENT

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## 6. SERVICE

### 6.1 SERVICE INTERVALS

In order to keep your Garia Golf Car in the best condition, Garia has prepared a specially designed service program, to ensure that the vehicle constantly lives up to the highest standards.

The following service intervals have to be met to uphold the warranty.

- 12 months / 360 hours service
- 24 months / 720 hours service
- 36 Months / 1080 hours service

Besides the above mentioned service intervals, additional daily, weekly and monthly checks are required, which can be performed by the owner of the vehicle to uphold the quality and functionality of the vehicle. The following pages state how to ensure the proper maintenance of your Garia Golf Car.

If the vehicle is malfunctioning in any way not specified in this user's manual, please consult a qualified repair shop. Garia recommends that any work is provided by an Authorized Garia Service Dealer.

The attached quick guide and service book contains the space for service stamps and service and repair remarks. Always be sure to remind your local dealer/repair shop to apply stamps and comments after each service interval.

### 6.2 SERVICE SYMBOL IN INSTRUMENT CLUSTER

This vehicle is equipped with a memory function that reminds the user to service the vehicle regularly. This symbol will be reset after each service by an Authorized Garia Service Dealer and reappears once the next service is due. Always make sure that the vehicle is maintained according to the service indicator in the instrument cluster. Failure to follow this will void all applicable warranties.

# 06 SERVICE

## 6.3 SERVICE ACTIONS

	C = Check	CA = Check & Adjust	R = Replace	S = Service	CL = Clean & Lubricate	L = Lubricate
Months			12	24	36	48
Hours			360	720	1080	1440
<b>CHECK:</b>						
Tire pressure	CA	CA	CA	CA	CA	CA
Visual inspection of tires & rims	C	C	C	C	C	C
Brake fluid level	C/S	R	C/S	R	C/S	R
Battery mounting & liquid state	S	S	S	S	S	S
Wires, battery cables & various connectors	CL	CL	CL	CL	CL	CL
Steering for free play	S	S	S	S	S	S
Inspection of shocks, springs, cuffs	C	C	C	C	C	C
Inspection of front & rear lights	C	C	C	C	C	C
Headlight adjustment	CA	CA	CA	CA	CA	CA
Washer nozzle position (if present)	CA	CA	CA	CA	CA	CA
Wheel bearings for play & sound	S	S	S	S	S	S
Toe-in alignment	CA	CA	CA	CA	CA	CA
Differential oil	S/CA	S/CA	R	S/CA	S/CA	R
Wndscreen washer fluid	C	C	C	C	C	C
Front brakes	S/CL	S/CL	S/CL	S/CL	S/CL	S/CL
Rear brakes (Drum brakes)	S/CL	S/CL	S/CL	S/CL	S/CL	S/CL
Discharge test	S	S	S	S	S	S
Heated windshield (if present)	C	C	C	C	C	C
Windshield for cracks & damages	C	C	C	C	C	C
Refrigerator (if present)	C	C	C	C	C	C
Lower A-arm	C/S	C/S	C/S	C/S	C/S	C/S
Upper A-arm	C/S	C/S	C/S	C/S	C/S	C/S
Rear trailing links	C	C	C	C	C	C
Rear Panhard rod	C	C	C	C	C	C
Transmission	C	C	C	C	C	C
A/C motor	C	C	C	C	C	C
Controller	C	C	C	C	C	C
Speeder box	CA	C	CA	C	CA	C
Seat belts (if present)	C	C	C	C	C	C
Interior light (if present)	C	C	C	C	C	C
Seat adjustment (if present)	C	C	C	C	C	C
Score card holder	C	C	C	C	C	C
Side mirrors (if present)	C	C	C	C	C	C
Bagholder (if present)	C	C	C	C	C	C
Storagebox (if present)	C	C	C	C	C	C
Licence plate light (if present)	C	C	C	C	C	C
Instrument cluster (service reset/ function)	CA	CA	CA	CA	CA	CA
Center consol buttons (if present)	C	C	C	C	C	C

## 6.4 USER SELF-SERVICE

Following the guidelines below, the user of the vehicle can constantly make sure that the Garia golf car is in the best and safest working condition.

Garia recommends to follow this schedule accurately and consult a qualified repair-shop if any part of the vehicle is not functioning correctly and cannot be replaced by the user.

C = Check CR = Check and replace (if needed)			
CHECK:	Daily	Weekly	Monthly
Tires and rims. (visual inspection of cracks, debris and damages)	CR		C
General vehicle conditions (defects and damages)	C		C
Functionality of the lights (bulbs, adjustment etc).	CR		C
Brake pedal travel	C		C
Wiper function, windshield washer fluid, wiper blade.		CR	C
Batteries, battery shoes, cable assembly, acid etc (visual inspection)		CR	C
Tire pressure and tire wear		C	C
Functionality of the reverse warning indicator		C	C
Brake fluid level			C
Batteries (acid level).			C

## 06 SERVICE

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## 7. MAINTENANCE

### 7.1 REPLACING LIGHT BULBS

#### 7.1.1 Replacing the bulb of the headlight

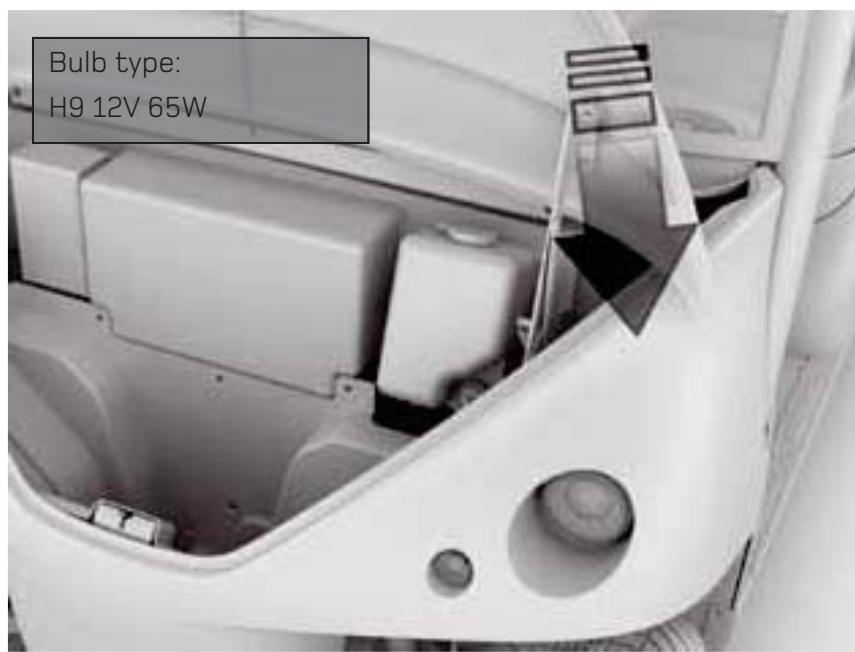


Fig. 7.1

To replace the bulb of the headlight, access the socket from within the front storage compartment. Disconnect the cable plug for the bulb and turn the bulb socket  $\frac{1}{4}$  of a turn counter clockwise. The bulb will release from the lamp fitting. Turn the bulb an additional  $\frac{1}{4}$  of a turn, so the cable fitting is facing upwards. The bulb can be removed from the lamp fitting. Exchange the bulb with a new, suitable for the original type for the vehicle and follow the guidance above in reverse. (Bulb type H9, 65W)

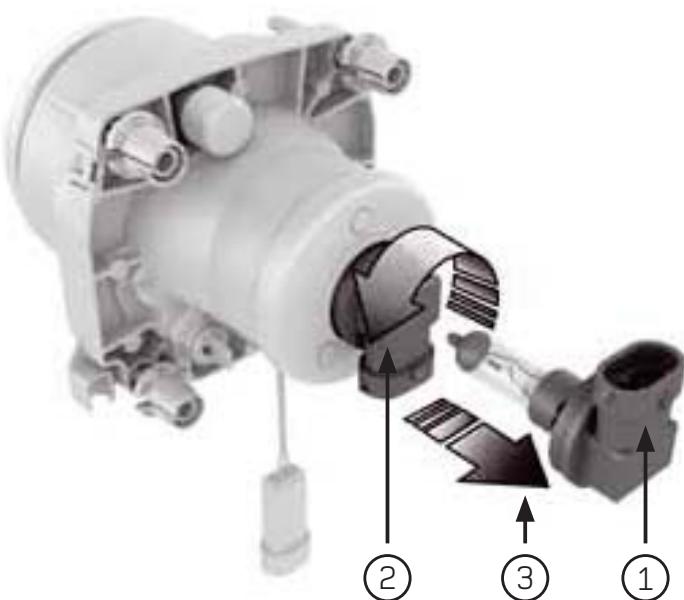


Fig. 7.2

1. Remove the connection plug from the 12V bulb socket
2. Turn the bulb socket 1/4 of a turn counter clockwise to release it from the lamp socket.
3. Turn it an additional 1/4 of a turn counter clockwise so the socket faces upwards. Remove the bulb.

### **⚠ WARNING**

Hot bulbs can cause burns. Always disconnect cables and do not touch the bulb until it has cooled off. Never touch a lighted bulb.

### **NOTE**

Never touch the glass of a bulb. Touching the glass will shorten the life of a bulb remarkably. Use a glove or a cloth when handling a light bulb.

### 7.1.2 Replacing the bulb of the front indicator

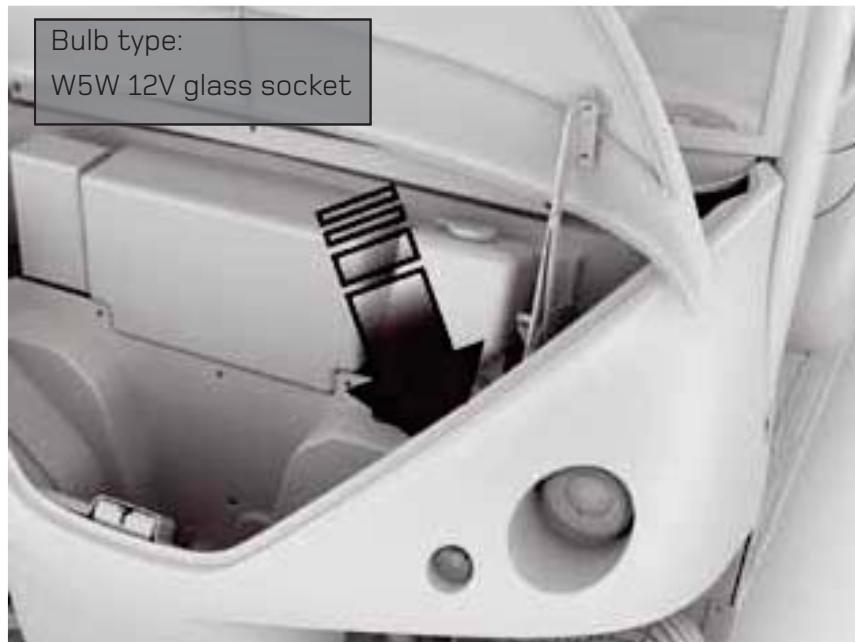


Fig. 7.3

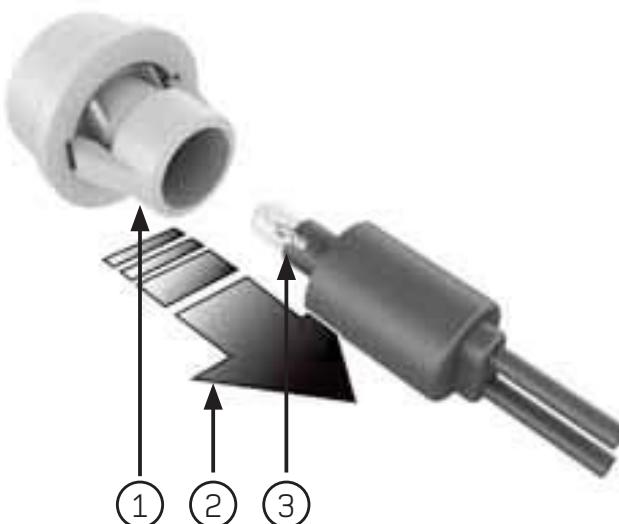


Fig. 7.4

1. To replace the 12V bulb of the front indicator, access the socket from within the front storage compartment.
2. Remove the insulation of the socket and then pull the socket out of the lamp fitting.
3. Replace the lamp, by pulling out the W5W bulb and replacing it with a new. Then insert the socket into the lamp fitting and ensure that the insulation prevents moisture, dust or sand from entering the lamp

### ⚠ WARNING

Hot bulbs can cause severe burns. Always disconnect cables and do not touch the bulb until it has cooled off. Never touch a lighted bulb.

### NOTE

Never touch the glass of a bulb. Touching the glass will shorten the life of a bulb significantly. Use a glove or a cloth when handling a light bulb.

#### 7.1.3 Replacing bulbs of the rear light

The rear light LED system is a closed circuit, and LEDs cannot be replaced separately. Please consult a qualified repair shop. Garia recommends that all maintenance and repairs are provided by an Authorized Garia Service Dealer.

### NOTE

In order to provide the required legal luminous intensity, all LEDs must function properly. Always replace lights, if any LED is not functioning correctly.

#### 7.1.4 Replacing bulbs of the rear indicator

The rear light LED system is a closed circuit, and LEDs cannot be replaced separately. Please consult a qualified repair shop. Garia recommends that all maintenance and repairs are provided by an Authorized Garia Service Dealer.

### NOTE

In order to provide the required legal luminous intensity, all LEDs must function properly. Always replace lights, if any LED is not functioning correctly.

## 7.2 CHANGING A WHEEL



Fig. 7.5

When changing a wheel, always ensure that the vehicle is raised on an even surface enabling it to be raised properly. Only use the marked jack-points to prevent any damage to the vehicle (see next page).

- Place chocks around all wheels not being lifted to prevent vehicle from moving.
- Loosen the wheel nuts slightly (1/4 of a turn) before raising the vehicle (**NEVER** completely unscrew **ANY** of the bolts when the vehicle has not been raised.)
- Always make sure that bolts are cross-loosened and cross-tightened as illustrated below.
- Raise the car and remove all bolts.
- The wheel can be removed and another can be mounted.
- Always use the same size and type of wheel for all 4 wheels on the vehicle.
- Use only original model-specific Garia standard or optional wheels to ensure safe driving conditions and correct dimensions for the vehicle.
- When mounting a new wheel, reverse the steps mentioned above and tighten bolts on the vehicle as much as possible.
- Tighten the wheel bolts with a tightening torque of 89 ft-lbs (120 Nm).
- Check tightening of wheel bolts after one week of driving, retighten if necessary.
- Please refer to page 9 of this manual for checking tire pressure and tire wear.

\*depending on model

### 7.3 JACK POINTS

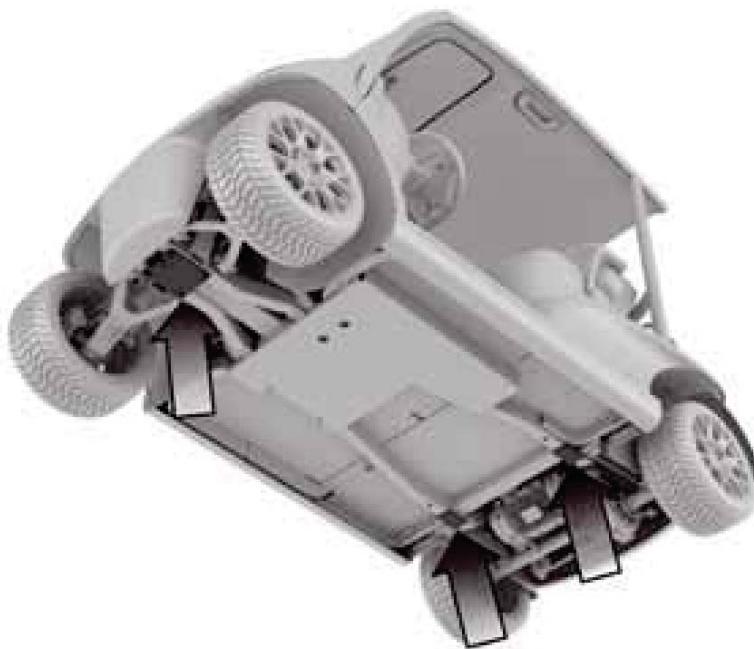


Fig. 7.6

When raising the vehicle for changing wheels or other work on the underside of the vehicle, the vehicle must be raised on one of the illustrated lifting points. Only use the marked jack-points to prevent any damage to the vehicle.

Never work under a vehicle that is only supported by a jack.

Only lift vehicle on a firm, stable and level surface.

Use jack stands and check that vehicle is stable and secure to work under.

Chocks should be placed at the wheels not being raised to prevent vehicle from rolling.

Work with extreme caution, since lifting causes great instability in the vehicle.

#### WARNING

To reduce the possibility of severe injury or death from a vehicle falling from a jack or a jack stand, ensure that the following precautions are taken.

- Vehicle is placed on a firm, stable and level surface
- No work is performed unless the vehicle is secured by jack stands.
- Chocks are in front of and behind wheels that are not being raised.
- Work with extreme caution, since a lifted vehicle can be very unstable.

# 07 MAINTENANCE

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## 7.4 CLEANING THE VEHICLE

When cleaning your Garia Golf Car, the following procedure ensures the best possible result to attain a look close to the vehicle's appearance when new. Most importantly, always make sure to turn the main power switch to "OFF" before working on an electric vehicle. The combination of water and high voltage is extremely dangerous and could be fatal.

**Do not clean any part of the vehicle with a high-pressure cleaner.**

### 7.4.1 Exterior

Initially, remove the bin to avoid damage to the color or structure of the leather. Following, water the vehicle with running water (e.g. a garden hose) to wet the vehicle and to wash away larger pieces of dirt, dust and similar. Avoid as much as possible getting water on the seats and dashboard, especially around the area of electronic switches and appliances. Although durable for small amounts of water, the interior can be damaged when exposed to large quantities of water. Apply water mixed with automotive shampoo (please follow manufacturer's instructions regarding mixture proportions and other instructions). Use a clean soft sponge or brush specifically for automotive exterior cleaning for applying on vehicle exterior. Wash off shampoo with running water (e.g. a garden hose) and dry vehicle with a chamois for automotive use.

### 7.4.2 Wheels

When using the same sponge for cleansing rims as exterior, it is strongly recommended that the exterior bodywork is cleaned before cleaning the wheels. If the cleaning is done in reverse, the dust from the wheels can risk permanent damage by scratching the painted surface of the exterior. Wet the rims with running water. Apply rim cleansing solution or automotive shampoo with a clean soft sponge or brush and rinse after a short while with running water.

### 7.4.3 Rubber flooring

Wet the rubber with running water. Apply rubber cleansing solution or automotive shampoo with a clean soft sponge or brush and rinse after a short while with running water. Dry surface gently with a chamois for automotive use. Allow flooring to dry completely before usage to attain the best result. If the rubber flooring shows discolouration due to wear, tear and extreme weather conditions, it is recommended that an aftermarket rubber shine solution is applied to attain 'close-to-new' looks.

#### 7.4.4 Interior

To clean the interior, use a moist cloth or chamois to wipe the surfaces. For thorough cleaning, use automotive interior cleaning solutions and follow instructions carefully. Avoid using running water or high pressure cleaner for cleaning the interior.

#### 7.4.5 Seats

For cleaning the seats and other parts of the interior of similar fabric, wipe with warm water using a wrung cloth. The water can contain mild detergents, with mixture proportions according to manufacturer's specifications. Do not use running water, high-pressure cleaning, solvents, bleaches, abrasives, synthetic detergents, wax polishes or aerosol sprays. Avoid contact with sharp objects.

#### WARNING

Risk of electric shock! Always turn Main power switch "OFF" when working with water around an electric vehicle.

Do not clean any part of the vehicle with a pressure cleaner.

## 7.5 CONTROLLING THE BRAKE FLUID



Fig. 7.7

The brakes are a vital part when driving a Golf Car. It is of utmost importance to ensure that the brakes are functioning correctly at all times. Controlling the brake fluid level is an indicator showing if the braking system is functioning correctly.

This vehicle is equipped with a brake fluid level warning indicator which is on the instrument cluster. It informs the driver, if the brake fluid level is reaching a level too low for safe braking operation. If the light is lit in this indicator, a check and a refill could be necessary. Please see page 40 for the placement of the brake fluid warning level indicator.

It is recommended that a check of the brake fluid level is made regularly. The brake fluid container is found under the seat in the battery compartment. Check that the fluid level is above the minimum requirement but still below the maximum requirement. Too much or too little brake fluid can cause permanent damage to the entire braking system, putting your safety at risk.

Always use DOT 4 brake fluid.

If brake fluid levels are correct but the braking system shows irregularities, please consult a qualified repair shop. Garia recommends that all maintenance and repairs are provided by an Authorized Garia Service Dealer.

### **⚠ WARNING**

**ALWAYS** make sure that the braking system is functioning correctly. Malfunctioning brakes can cause SERIOUS INJURY OR DEATH to drivers or people near the vehicle.

## 7.6 TOWING SWITCH



Fig. 7.8

The vehicle is equipped with a towing switch which enables the car to be towed if needed.

To activate the towing function, the switch in the battery compartment must be engaged. This can only be done by using the additional key which came with the car at its delivery. Please note, this key is not the same as the ignition key. It is recommended that the key is removed from the keyhole whenever the towing function is not activated. Doing this prevents unauthorized removal of the vehicle.

To be able to activate the towing function, the ignition switch on the steering column must be turned to the "N"-position. Furthermore it is necessary that the main power switch in the battery compartment is turned to the "ON"-position. Select "TOW" to activate the towing function.

Activating the towing function discharges the battery. Do not store vehicle with towing switch turned to "TOW", since this eventually will discharge the batteries. Fully discharging the batteries shortens the life of the battery. Activating the towing function disables the ignition information, meaning that the vehicle will not drive.

Always make sure to take the best safety precautions when releasing parking brake. Activating the towing switch disables most electrical appliances in the vehicle.

### **⚠ WARNING**

The vehicle can roll unexpectedly at all times when the parking brake is released, even on level ground. This can cause a severe accident.

## 7.7 TOWING WITHOUT BATTERY POWER

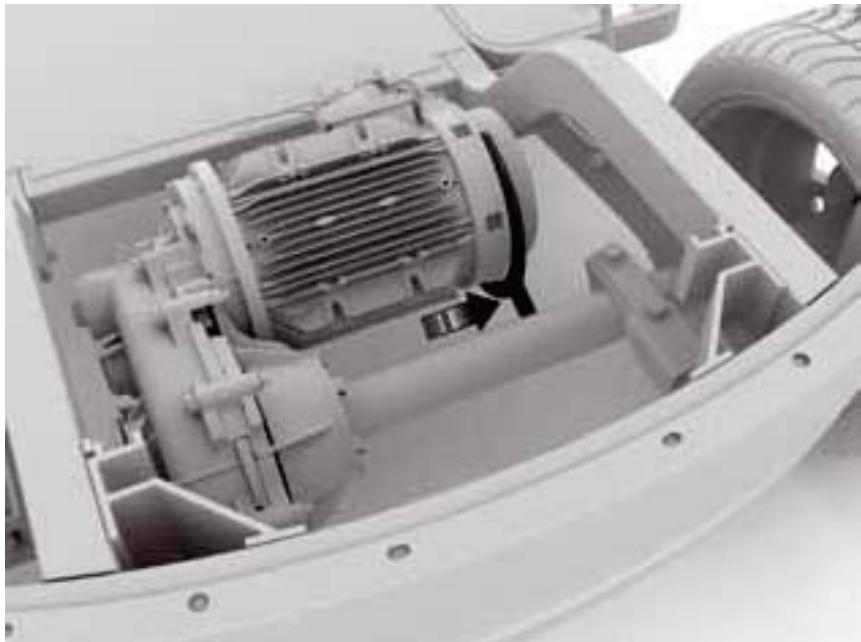


Fig. 7.9

If vehicle batteries are completely discharged or malfunctioning, and there is no possibility of activating the towing function through the towing switch, the parking brake can be released by manually engaging the lever on the motor as illustrated above.

Push the lever to release the parking brake and the vehicle can be towed.

Access the lever from the underside of the vehicle or by removing the load area floor. Once the towing session has taken place, it is of great importance to activate the parking brake before vehicle is put into service.

Always take the greatest safety precautions when releasing parking brake.

### **⚠️ WARNING**

The vehicle can roll unexpectedly at all times when parking brake is released, even on level ground. This can cause a severe accident!

Activate automatic parking brake function before vehicle is put into service!

## 7.8 TOWING HOOK



Fig. 7.10

If the vehicle requires to be towed, a towing hook is placed on the underside of the front body as illustrated above. Release parking brake as illustrated on page 74 or 75.

### **⚠ WARNING**

Use caution when towing a vehicle.

Do not attempt to tow vehicle with any other device than an approved automotive towing rope.

Do not tow vehicle on highways or other public roads not specified for Golf Car use. Only tow one vehicle at a time.

The vehicle can roll unexpectedly at all times when parking brake is released, even on level ground. This can cause a severe accident.

Do not exceed 10 mph (16 km/h) while towing.

## 7.9 HAULING

This Garia Golf Cart is not constructed for hauling of any type, including other vehicles, trailers or other devices. Failure to heed this warning will void all applicable warranties.

## 7.10 FUSE BOX



Fig. 7.11

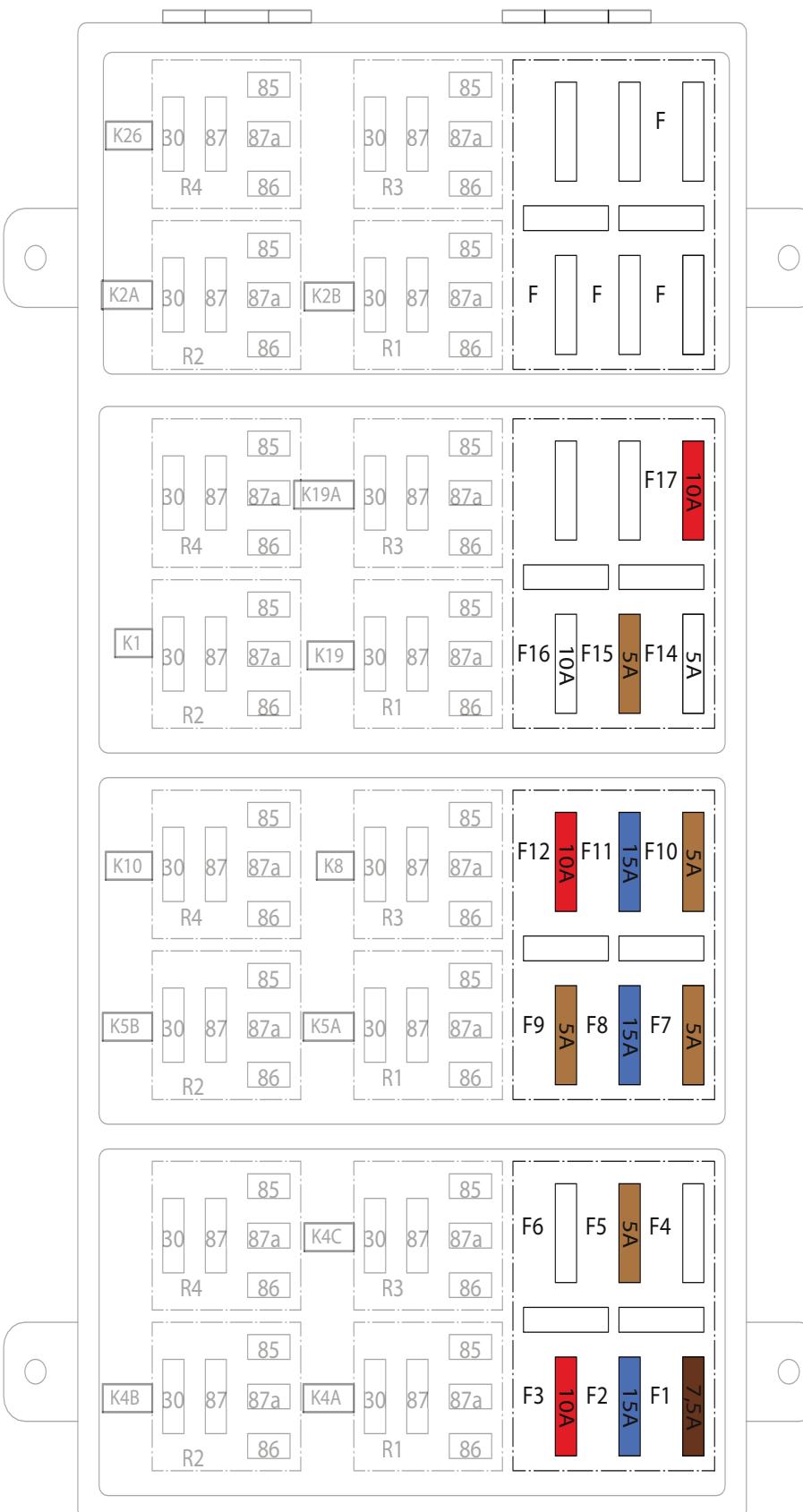
The fuse box is situated as illustrated above.

If a malfunction in the electrical system occurs, it is recommended to check the fuses. Always be sure to replace fuses for the same amperes as specified on the following page. Replacing fuses for other amperes than specified can cause malfunctions or break-downs on the electrical system.

### ⚠ CAUTION

Danger of damaging the device!

Only replace fuses for the same amperes as specified in this user's manual. Replacing fuses for other amperes than specified can cause serious damage to the electrical system of the vehicle.



FUSE	AMP	Usage
F1	7,5A	Horn, Direction lights
F2	15A	Parking light, high beam
F3	10A	Low beam
F4	-	-
F5	5A	Hazard lights
F6	-	-
F7	5A	Brake lights
F8	15A	Wiper, washer pump*
F9	5A	Bonnet opener, instrument cluster
F10	5A	Interior light*
F11	15A	Refrigerator*
F12	10A	12V plug
F13	-	-
F14	-	-
F15	5A	Keylock 48 V
F16	-	-
F17	10A	Windshield heater*
	*	Optional

Fig. 7.12

## 7.11 STORAGE

When storing your vehicle for longer periods of time, please perform the following operations.

- Turn the ignition key to the 'OFF' position.
- Remove key and store it in a safe place.
- Turn the Main power switch in the battery compartment to 'OFF'.
- Remove the key from the towing key switch. This should only be present when vehicle is being towed. Always store in a safe place.
- Clean the vehicle and apply a rust inhibitor on exposed locations.
- Cover the vehicle with a suitable cover, made from a breathable fabric, and store the vehicle in a dry and properly ventilated area.
- Charge the batteries and check the fluid levels. Do this at least once a month.
- Clean the tops of the batteries with a solution of baking soda and water. Use 1lb of baking soda for 1 gallon of water (120g for 1 litre of water) to remove corrosion. Do not allow this solution to enter the battery cells.
- See chapter 3 for special precautions when storing batteries.

## 8. TROUBLESHOOTING

- **The car will not drive.**
  - Check if Main power switch is "ON" in battery compartment.
  - Check if Towing switch is "OFF" in battery compartment.
  - Check if Ignition switch is in "F" or "R".
  - Check if batteries are charged enough to drive vehicle by looking at the battery indicator in the instrument cluster.
  - Reset the vehicle - please see next page for how to reset the vehicle
  - If all of the above are confirmed, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The vehicle will only drive at a very slow speed.**
  - Are the batteries properly charged? If vehicle voltage is below 37,5V, the vehicle can have switched to LOS-mode (limited operation strategy). It is a safety program that allows the vehicle to drive at very low speeds only. Fully charge batteries to switch off LOS mode.
  - Reset the vehicle - please see next page for how to reset the vehicle
  - Please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The vehicle has a lower range than usual.**
  - One or more batteries can be malfunctioning. Batteries will typically experience lower capacity after many cycles of charging.
  - Allow batteries to fully charge and check for correct water levels.
  - If this does not help, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The batteries will not charge.**
  - Check that the power inlet is supplying power to the charger.
  - Check that the charger LED is indicating that the batteries are charging.
  - Charger can be overheating in hot weather conditions. Allow charger to cool or engage charging in a cooler environment
  - If this does not help, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **What to do with a completely flat battery.**
  - Engage a full charging cycle of the battery
  - If this does not help, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.

## 08 TROUBLESHOOTING

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- **How to reset the vehicle.**
  - If the vehicle shows any electrical errors, resetting the electric system could provide aid for solving this. Resetting the vehicle is done by turning the Main power switch "OFF" and turning it "ON" again 30 seconds after.
  - If this does not help, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The lights do not work**
  - Check the fuse. If fuse is not intact, replace with a new.
  - Check if bulbs are functioning correctly. If not, replace with a new.
  - If none of the above prove helpful, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The refrigerator does not work**
  - Turn ignition on (turn to 'N'), and activate the refrigerator on the 'refrigerator' button on the dashboard. The refrigerator symbol in the instrument cluster will be lit if power is on and ignition switch is not turned to 'Off'.
  - Check the fuse. If fuse is not intact, replace with a new.
  - If none of the above prove helpful, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The refrigerator stops cooling when parked (less than 2 hours)**
  - Main power switch must be on.
  - Check the fuse. If fuse is not intact, replace with a new.
  - If none of the above prove helpful, please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.
- **The brake pedal is soft, or goes down without resistance.**
  - Do not drive vehicle, brakes can be malfunctioning. Please consult a qualified repair shop. Preferably an Authorized Garia Service Dealer.

## 9. VEHICLE TECHNICAL SPECIFICATIONS

### 9.1 TECHNICAL INFORMATION

Lightweight aluminum chassis

High torque and efficient A/C motor - 3.0 kW

Automatic parking brake on drive train

Double independent aluminium wishbone front suspension

Automotive approved laminated glass windshield

#### MEASUREMENTS:

Length:	92 Inches*	/	2330 mm
Width:	48 Inches*	/	1210 mm
Height:	73 Inches*	/	1850 mm
Ground clearance	6,5 Inches	/	165 mm

#### WEIGHT:

Curb weight:	1212 lbs	/	550 kg. (incl. batteries)
Maximum approved weight:	1984 lbs	/	900 kg.
Net Weight:	1155 lbs	/	550 kg.
Payload:	828 lbs	/	350 kg.
Payload ex passenger weight:	498 lbs	/	200 kg.

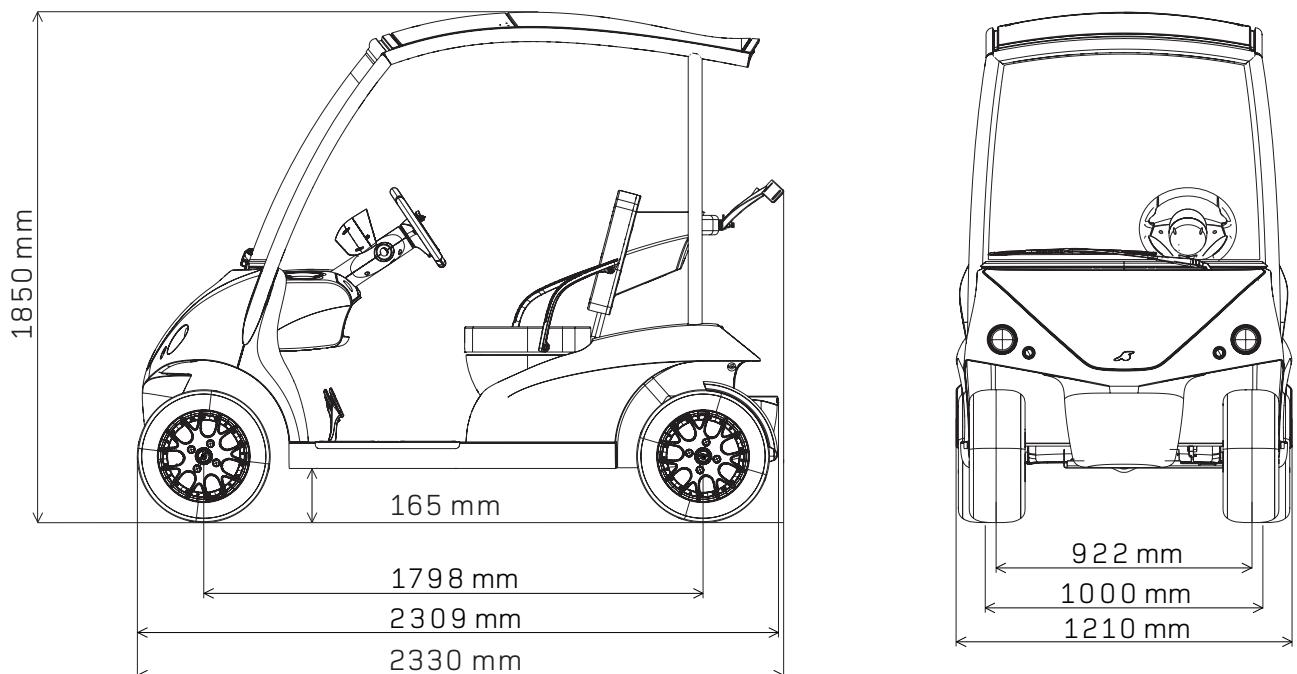


Fig. 10.1

\* At curb weight.

# 09 VEHICLE TECHNICAL SPECIFICATIONS

## PERFORMANCE:

Top Speed	15 MPH	/	24 Km/h
Range	30 miles	/	50 Km (depending on use)
Turning radius	102 Inches	/	2600 mm (outer circle)
Charge time	7 Hours (30-100% SOC) (depending on weather conditions)		
Garia offers different performance programs regarding acceleration, top speed and brake regeneration. Please contact an Authorized Garia Service Dealer for your preferred settings.			

## BATTERIES:

Type:	Lead-Acid, C5 Ah 145 Ah, Trojan® T-875 8V
Numbers of batteries:	6x8V
Total voltage:	48V

## FRONT AXLE:

Independent suspension; double wishbone with anti roll bar (optional), ball joint design front axle, coil spring and shock absorbers.

## REAR AXLE:

Rigid axle; trailing links and Panhard rod, coil springs and shock absorbers

## WHEELS:

Aluminum 10" wheel with 205/50-10 tires - design 1 diamond cut, gun grey.

Aluminum 12" wheel with 205/30-12 tires - optional, 3 different designs

## STEERING:

Double ended rack and pinion

## BRAKING SYSTEM:

Hydraulic dual circuit, discs brakes on front axle and drum brakes on rear axle.

## ON-BOARD CHARGER:

Delta-Q QuiQ dci 922-4852 combined charger/12V converter

## CONTROLLER:

Curtis Model 1234-5271

## 9.2 DECLARATION OF CONFORMITY

06-01-2010

### Declaration of Conformity



Ken V.G. Martinsen  
 Manager Homologation & Engineering  
 Garia A/S  
 E-mail : [kma@garia.com](mailto:kma@garia.com)

Lunikvej 44  
 DK-2670 Greve  
 Denmark  
 T - +45 46 570 580  
 F - +45 46 570 599

#### DECLARATION OF CONFORMITY

We hereby declare that :

Product name	: Garia Golf Car
	--
	--
Product description	: Four-wheeled golf car
Product type code	: UJG.S2
Serial number	: 000001 – 899999

Conforms with all essential health and safety requirements of the following directives :

USA golf car directive : ANSI / NGCMA-130.1-2004

Location : Greve, Denmark

Date : **6. feb. 2010**

Signature :

Ken V.G. Martinsen  
 Manager Homologation & Engineering  
 Garia A/S  
 Lunikvej 44  
 DK-2670 Greve  
 Denmark

MORE THAN JUST A GOLF CAR

## 09 VEHICLE TECHNICAL SPECIFICATIONS

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# 10 NOTES



# 10 NOTES

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Garia Golf Car user's manual.

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